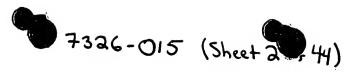
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61) 666	GO Ser VGC	C TGG Cyr	Lyr	nco The	, yrd CCC	TTT Phe 65	• •••	C GTG	700 L C yr	CTI Leu	λλο Lya 70	111.6	T T Y E	Glu CVC	CCC Vla	363	
7 5	•	•			80		· cyu		. 191	85	yot) Val	Ile	Thr	CCC Fro	411	
				95			,,,,,	, 2,60	100) Volu	, vra	Glu	λrg	The		459	
			110				116	115	i tiig	. 1,10	1,116	Ser	Flie	Ser	TCC Trp	507	
CCC Pro	CCT Cly	ACC The 125	. TTC Plie	TCC Ser	CTG Leu	λTC	CTC Val 130	GIU	Λla	TCC Trp	IIŢ8 CVI	СЛТ Лвр 135	Thr	yau yyC	vau Vy1	555	
NGC Ser	GGC Gly 140	γαυ γν1	νla	νεα	NCC The	λλC λσπ 145	Γλυ γνα	C.L.C	CTC L eu	NTC Tle	CAG G111 150	VE G	CTC Leu	TTC Leu	CTC Val	603	
C/A C/L n 155	Clu	CTN Val	Len	Clu Clu	CTC Val 160	TCC Ser	TCC Ser	Clu	TCC Trp	λλς Lye 165	λCG Thr	уви уус	Lγη	TCC Ser	GAA G1u 170	651	
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ACC The	220			•		225	~ ,	***************************************	116	1.50	230 Lyg	Chu	Νla	Lye	Cly	843	
ТСТ Сув 235	Chh (Clu (CNT III o,	GCN Gly		TGC Cyo 240	ν _υ μ GyG	ስ ስ ስ Ly σ	CCC Pro	νου Τυγ	CAA Gln 245	Cy a	CTT Val	TCC Cy a	CIN	CTG Leu 250	891	



	255	260	CTT CTG GAA CCG Val Leu Glu Pro	Non Cyn
2.	10	776	Sha TT6 Chu Von Cha TT6 Chu Von 200	GNG GGT 987
		290	ANC TAC TGC ACC San Tyr Cyn Thr 295	vau IITa
•	305		ANC ACC GGC GAG	Cly Leu
	320	3	CT CAT GAT TGC (ein yeu
	335	340	to Cha GJu yau (CC ICC CVC VVI (GCT CCT 1179
33	U	355	CC TAC AAG TGT C Ly Tyr Lyb Cyn 1 360	ira cha
303	3	70	NC NNN CTC CTC N Tu Lye Val Leu T 375	hr Cya
	385		C NNC CTT CCT C g Nen Val Nrg P 390	ro cly
	400	40	N TCT CCC NTT C U Cye Pro Ile C 5	ly Tyr
yec cey cec yye	115	420	" che ser firo Vi	OT CCA 1419
Cha 116 yeu Cla Cha 116 yeu Cla 12C yly yyc ccl		435	The Che Ile Chy yye ici yil ic	GC CCA 1467
CCC CCA TIT TCC Ala Cly Phe Ser 445	15	0	The veb veb CA	a ren
CCC CAC CAG TGC Cly IIIn Gin Cyn 460	465		470	n Cln
TAT CGC TGC CAA Tyr Arg Cyo Gla 475	480	. 485	THE CAS 26	Ser
The Ast yeb fen (כנו	500	ton dry dry Thi	С ТСС 1659 Сув
TTC AAT CTC AAC 7 Leu Aen Leu Aen 7 510	NO CAT THE CHE	TCC ACC ICT Cye Thr Cye 515	_	



7326-015 (Sheet 3 8, 44)

61)	L.ye	525 525	· Cyo	TCT Ser	CTC Val	yab	71C	νοδ	Glu	TGC	VCC 26 t	NCT Ser 5J5	GIY	CCC Pro	TGT Cyn	1755
nl.	מתת ד 1870 1872		GGC Gly	λCT Thr	Cyn Cyn	10 NTG 11 0 E 11 5 4 5	ναι ννς	y t. d CCC	GTC Val	אעד אעד	TCG Ser 550	I, pi6	Clu	Сув	GTG Val	1803
TCT Cyo 555		חות אחר	GLY	TTC	νεα γεα γεα	GC C	ΛΛG Lyn	GIn CVC	TGC Cyn	262 Vab GVI	C J 11 GVC	G) a	TCC	TAC Tyr	GNT Nnp 570	1851
TCG Ser	GTC Val	ACC The	TTC Phe	GΛT Λαρ 575	νla	II T a CVC	Clu	TAT Tyr	GGΛ G1γ G0γ	GCG Ala	NCC Thr	λCλ The	Glu CVV	GCG Ala 585	λGλ Arg	1899
CCC Nla	Vab	CCT	TTC Leu 590	ACC Thr	V B II	Λla	C1u CVC	GTA Val 595	GTC Val	ren GIV	NTT Ile	GCT Ala	CTT Val 600	TTC Phe	TCC Ser	1947
		605		136 (1	Val	GCG Ala	610	116	Λla	Λ1α	Cliu	Və1 615	Val	Phe	Суб	1995
NTC	L y a 620	yrd ccc	Γλα γνα	уrä	Γλυ VVC	CGT Arg 625	Vla GC.L	Gln	Clu	Γλα VVC	630 yab cvc	yab Gγc	GCG Nla	G 1 ti	CCC	2043
VCC VCC	Γλυ ያህር	Gln CVC	уан уус	Glu GVV	CAG Glu 640	λητ Λαπ	CCC Λla	GTG Val	GCC Nla	NCN Thr 645	Net	IIÎ B CVI	IITa CVC	Vuu VVI	GGC Gly 650	2091
NGT Ser	G L Y	GTC Val	GLY	GTA Val 655	GCT Ala	Leu	CCT Ala	TCA Ser	GCC Nla 660	TCT Ser	CTG CTG	GGC Gly	G I y	FAB VVV	ΛCT Thr	2139
Gly GC	λGC Ser	ynu yyc	λGC Ser 670	GGT Gly	CTC CTC	VCC The	TTC Phe	GΛT Λαρ 675	G C C	GGC Gly	уап уус	CCG Pro	980 Vau VVI	λTC	NTC Ile	2187
ι λα γνν	γιιι γνς	ACC The 605	TGG Tṛp	учЪ СуС	ኮአu Γλu	TC C Ser	GTC Val 690	yun γγς	yen yvc	VII.	TGT Cyn	GCC Ala 695	TCA Ser	νla	GCN Nla	2235
νla	GCG 11a 700	Λla	CCC Nla	GCG Nla	GCN Nla	GCA Ala 705	GCG Nla	GCG Ala	yab GyG	Glu GVG	TGT Cys 710	CTC Leu	NTC Net	TAC Tyr	GGC Gly	2283
GGA Gly 715	TNT Tyr	CTC Val	OCC Ala	Ser	CTC Val 720	nla OCG	yub Gy1	yau yyc	γαυ γγς	725 Vau VVI	GCC	ναυ ννς	261 LCV	yab GyC	TTT Phe 730	2331
TGT Cyn	GTC Val	VI u	CCC Pro	CTA Leu 735	Glu	ngn Nrg	λla	Γλα VVC	TCG Ser 740	G] u	ŗλa γ να	CVV CVV	ren C1.C	λης Λση 745	NCC Thr	2379
vab Cvi	CCC Pro	NCG The	CTC Leu 750	NTG NTG	IIŢa CVC	yrd CCC	Gry	TCG Ser 755	CCG Pro	vla GCV	G I Y	NGC Ser	TCA Ser 760	GCC Vla	Γλυ УУС	2427
ely cey		TCT Ser 765	GCC Gly	GGV GGV	GC N	CCG (GGA Gly 770	VI a	CCC Ala	GNG	GGC Gly	AAC Lya 775	yed yed	NTC 1le	TCT Ser	2475
CTT Val	TTN Leu 780	Cly	Glu GVC	CCT Cly	TCC Ser	TAC Tyr 705	TCT Cyo	26t yCC	CAC Gln	λrg CCT	TCC Trp 790	CCC Pro	TCG	Fen LLC	GCG N1a	2523





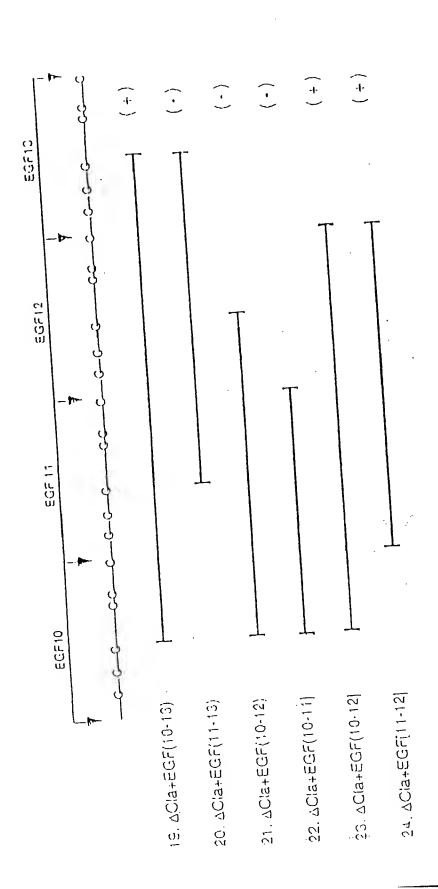
7326-015 (Sheet 40f 44)

GCG GCG GGA GTG GCC GGA GCC TGT TCA TCC CAG CTA ATG GCT GCA GCT Ala Ala Gly Val Ala Gly Ala Cym Ser Ser Glu Leu Het Ala Ala Ala 795 800 805	2571
TCG GCN GCG GGC NGC GGC NCG GCC CNN CNG CNC CGN TCC GTG Ser Nia Nia Gly Ser Gly Nia Gly Thr Nia Glu Glu Glu Nrg Ser Val 815	2619
GTC TCC GCC ACT CCG CAT ATG TAACTCCAAA AATCCGGAAG GGCTCCTGGT Val Cym Gly Thr Pro Him Het 030	2670
NANTCCGGAG NANTCCGCAT GGAGGAGCTG ACAGCACATA CACAAAGAAA AGACTGGGTT	2,730
GGGTTCNNNN TGTGNGNGNG NCGCCNNNNT GTTGTTGTTG NTTGNNGCNG TTTNGTCGTC	2790
ACGANANATG AANAATCIGI AACAGGCATA ACTCGTAAAAC TCCCTAAAAA ATTTGTATAG	2050
TANTINGCAN AGCTGIGACC CAGCCGTITC GATCCCGAAT TC	2892



	114		regation with Ser
1. pMiNMg	ZIV EGT N COCIO PA ODO	40	21
2. ASph	T. JIME MINES	0	nt
3. ACIa		0	nt
4. AEGF(7-17)		0	nt
5. AEGF(9-26)	romid imma mera no	0	nt
G. AEGF(17-30)		22	nt
7. AEGF(7-9)	(STORING) INCOMENIATION OF JERRO AND INCOMENIAT	20	14
8. AEGF(9-17)		0	0
9. AEGF(17-26)		10	8
10. AEGF(26-30)		5	7
11. AEGF(9-30)		0	n(
12. AEGF(7-26)		0	ni
13. ACIa+EGF(9-17)		35 ·	. 20
14. ACIa+EGF(17-26)	CAMINI 110010 INCOME ARE R	. 0	at
15. split		42	rit
16. ACIa+EGF(9-13)		47	25
17. ACIa+EGF(11-15)		0	0
18. ΔCla+EGF(13-17)		0	nt
19. ACla+EGF(10-13)		56	23
20. ACla+EGF(11-13)		. 0	nt
21. ACIa+EGF(10-12)		0	nt
22. ACIa+EGF(10-11)		0	ni
23. ACIa+EGF(10-12)		45	nt
24. ACla+EGF[11-12]		11	nt
25. AEGF		0	nt
26. AEGF+EGF(9:17)		24	nt
27. AEGF+EGF(9-13)		40	nt
28. AEGF+EGF[10-13]		45	23
29. AEGF+EGF(10-12)		48	nl
30. AECN		0	nt
31. AECH+EGF[10-13]		26	nŧ
32. AECN+EGF(10-12)		47	22
33. ACIa+XEGF[10-13]		42	20

7326-012 (Sheet 60544)



	32012	ोट भेटजे	
	MPGFTGTQC	4PG:YEG	
		Fog I C	
507 12	(I NECESHPCON EGSCLD DPGTFR	FOCNC POGYAGPRCELDV NECLESMPCONDSTICLD O IGEFOOT CMPGYEG	
	EGSČLI	рѕтст	
	HPCON	NPCQN	
	NECES	NECLS	
-		CELDV	
	QGFT GPRCETN	YAGPE	
	אָ אַכָּאַכן אַסַּ	NC PQC	
	GSIY RC	OSE OC	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	I CVINTIPIGSIY	RCTINT	
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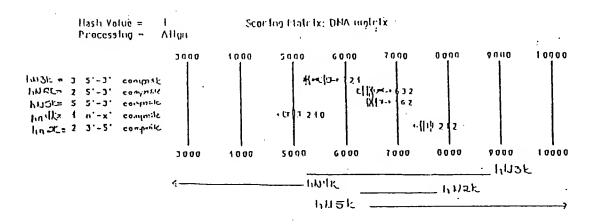
F1G. 5

191	1201 CACCATCACTTCCCTCACCCTCCCACCTCACACACTCTCCCTCAATCCTTCCCACCCTCAACTCCCACCA
153	1081 TCGCCGGGAGGAACAACAAAAAAAAAAAAAAAAAAAAAA
21.3	961 ACOTTT COTTODACOLANGICOTTA ACOCTOLA ACOCTOLA CANTACTA CANTACTA I COLA COCACA CACOTTAL TOA ACOCTOLA ACTOCACOCOTOLA ACTOCACO ACOCTOLA ACTOCACO AC
173	111 ACCASCACCACCATATECACCACCATATICACAACACACCACCACCACATACTACATACTACATATICACATACCACCATACCACATATACACAATATACTACACATATATACTAC
133	711 MCACCONTENCIONESCENTRECTECESCUSTECCOCONCTTACECCENCONCACONCACOCOCOTOCACOCOCOCOCOCOCOCOCOCOCOCOCOCO
9.3	501 COCOATTOTCOATOATIMOTOTOCCOCCOCOMOTIMITOCOTTA ACTOCOTAGOCOATA COCOATACOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOC
5.3	(1) TEGTEGTTEGNOTULCHAGUTCHECAGUCTGGGUUTGTCCULGAGCGGCGACAUAGGCGGCGTCGGAGGCTTGGGGTACGCAUATGGGGACCTTGGAGATGAGAGAT Seeseeleaglusetthelleglusesalaaspseskudlyneeseelyalyathsalathskyaksgölaksgetgatsargealealealathskeudsoggethsil
ī	111 MOCACITATMOTICUITIMITMITMITMITMITMICAITMOMACAICOCAINCAMCANTAIN ANGAIGCCAGGAITTACAITTIGTGGGGG 11 SCCGTIAITCACTAICCAGCAGGAGGGGCCAMAIAGAMCAMCAACCACCCAGAATTACAAACAGAAAATTACAGCCAAAACAGAAAAGAAAAGAAAAAGAAAAGAAAAGAAAAGAAAAGAAAA
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7326-015 (Sheet 9 05 44)

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nN3k			· -
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hN5k		No. of State	12

FIG. 7



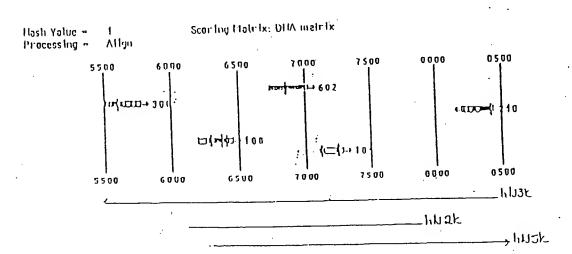




FIG. 8 A-C

A.

1 GANTICOGCI GUGAGANIGG TOTORGOTAC CIGCOGGICC IGCIGGGGA TERATGGCAN
61 GIGGGANAG CONCRETGGG CAMACGGGCC AGGCCATIIC IGGAATOTOU TACATGGIGG
121 GCAGGGGGCC CGCARCAGCI GGAGGGCAGG IGGACIGAGG CIGGGGATCC CCCGCIGGII
181 GGGCANIACI GCCITTROCC AIGAGCTGGA AAGTCACAAI GGGGGGCAAG GGCICCCGAG
211 GGIGGIIAIG IGCIICCIIC AGGIGGC

B. .

1 GRATICCTC CATTATACGI GACTITICTG ARACTGIAGC CACCCTAGIG TCTCTARACTC
61 CCTCIGGAGT TIGTCAGCTI IGGICTITIC ARACAGAGGGGGG CTCTCTTCAA
121 GCGGGCATGC TCCAGTIIGG TCTGCGTCTC ARAGAGAGCCI TIGGTAATTG ATTCTTCTTC
101 ARACCGGAAC TGAAGGCTGG CTCTCACCCT CTAGGCAGAG CAGGAATTCC GAGGTGGATG
241 IGTIAGATGI GAATGCCGT GGCCCAGATG GCTGCACCC ATTGATGTTG GCTTCTCTCC
301 GAGGAGGCAG CTCAGATTTG AGTGATGAAG ATGAAGATGC AGAGGACTGT TCTGCTAACA
361 ICATCACAGA CTTGGTCTAC CAGGGTGCCA GCCTCCAGAC CAGGACTGT TCTGCTAACA
121 GATGGCCCTG CACCTTGCAG CCCGCTACTC ACGGGCCTGAT GCTGCCAAGC GTCTCCTGGA
181 IGCAGGTGCA GATGCCAATG CCCAGGACAAA CATGGGGCCGC TGTCCACCCC ATGCTGCAGT
181 GGCACGTGAT GCCAAGGTGT ATTCAGATCT GTTA

C

61	CUCCCCLCUL	GRITCGCRAC CCTGGCTGCC TGTGARTGCR	CCCCTGGCTG	TOGOGGONT	GGTGGCAGAA	CTGRTCARCT CTGRTCARCT LGGGCRGCIG
101	CIGICANINA	TGTGGNGGCA GGNNGNGNCN	ACTCTT TT GT	TGTTGNNAAA	TOGGGCCAAC	CGRGACATGC



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FIG. 9 A-B

A

B

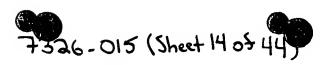
61 1 121 R 181 R 241 R	ICCCGGGCTG TTCTNGRCC NTCGCTCGC CTCGGATTT	CRGGRATICC	GGCGGRCTGG GCGRRTGGCT GRGGGRTGCR CCRGCCTGCT	CGGGCGGCHC GCTCGGGCTC GRCRGCTGGC GRGGTTCRGR TRCRGGGRGC	CTCCRRAGIC	RCCRGGCTCA GGATGGCATG
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10	20	30	40
TGC CAG GAG GAC GCG GG	C AAC AAG GTC N K V	TGC AGC CTG CI	NG TGC NAC NAC C N N>
50 60	70	80	90 .
TO THE THE CA	c acc act GNO	C S L	NC TTC NNT GNC N F N D>
100 110	120	130	140
	C CAG TOT OTO	CAG TGC TGG A Q C W	AG TAC TTC AGT K Y F S>
150 160		* *	190 * *
GAC GGC CAC TGT GAC A D G H C D	CLC TCC AN	C TCA GCC GGC 1 S A G	
200 . 2	10	220 2	30 240
GGC TTT GAC TGC CAG C	CT CCC GAN GG	C CAG TGC AAC	P L Y D>
250	260	270	280
CAG TAC TGC AAG GAC C	THE AGE GI	AC GGG CAC TGC) G II C	GAC CAG GGC TGC D Q G C>
290 300	310	320	330
AAC AGC GCG GAG TGC O	CAC TGG GAC GG	G CTG GAC TGT	GCG GAG CAT GTA A E II V>
340 350	360	370	380
CCC GAG AGG CTG GCG	GCC GGC ACG C	TG GTG GTG L V V V	GTG CTG ATG CCG V L M P>
390 40	0 41	0 420	430
CCG GAG CAG CTG CGC P E Q L R	AAC AGC TCC T N S S	TC CAC TTC CTG F H F L	CGG GAG CTC AGC R E L S>
440	450	460	470 480
256 636 366	NAC CTC GTC T	TO ANG COT GAC	
490	500	510	520 * *
CAG ATG ATC TTC CCC Q M I F P	THE THE CCC O	CC GAG GAG GAG	
530 540	550	560	570 * * *
CCC ATC AAG CGT GCC	CCC CNC CCC	TOO OOD GOA CCI	D N L L>



580	0		9	590			600		*	61	0	*	62	0	
GGC (Cye	GTG V	NNG K	GCC N	TCG S	CTG L	CTC L	CCT	GGT G	GGC G	NGC (E E	GT G	GG (CGG R>
	630			61	10		0	550		*	660		4	670)
	CGG R	λGG R	E GNG	CTG L	GVC D	CCC P	NTG M	GVC D	GTC V	CGC R	GGC G	TCC 1	TC (V TC	Y>
	6	80			690			70	00		7	10	1	A	720
CTG L	GλG E	ττα I	D GVC	уус И	CGG R	CVC Q	TGT C	GTG V	CλG	CCC	TCC S	TCG (CAG 1	rgc C	TTC E>
		7	30			740			750			76	0	•	
CNG Q	λGT S	GCC	ΛCC T	GλC D	GTG V	GCC A	y GCV	TTC F	CTG	G GGY	GCG N	CTC L	y GCC	TCG S	CTG L>
770			780			7	90			800			810		*
GGC G	λGC S	CTC	УУ/С :	NTC I	CCC P	TAC Y	λλG	ΛTC	E GNG	GCC λ	GTG V	CNG Q	λGT S	GAG E	T>
82	20			830		•	840)	*	8	50	*	8	60 *	
GTG V	GλG E	CCG			E CCC	ς GCG	Q CVG	CTG L	CAC	TTC F	λTG M	TAC Y	GTG V	ς GCG	GCG A>
	870			ε	180			890		*	900		*	9:	10
GCC V	GCC A	TT7	GIO V	G CTI	CIG	TTC F	TTC F	GTG V	G G	C TGC	GGG G	GTG V	CTG L	CTG L	TCC \$>
		920			930)		ç	940		•	950		*	960
C G C R	λλα	CGG R			Ω CΛ(E CAT	GG(C CVC	CTC L	TGC W	; TTC F	P CCT	GAG E	GGC G	TTC F>
			970		.	980		*	999	0	*	10	00	*	
κ ννν	GTC V	S TC	I GA	ς GC	C NGC S	κ . <i>ν</i> ν	ς λλ ί	K 77.0	G CGG	G CGC R	E E G GNG	P CCC	CTC L	GGC G	GAG E>
1010			102	0	*	10	030		•	1040		*	1050		•
GλC D	TC(- ст	c cc	C CT	C AA	G CC	C CT	G NN	G AA	C GC	T TC/	/ GAC	GGT	GCC	CTC
	60			1070		*	108	0	•	1	090	*	. 1	100	
		- ch	~ ^ ^	CCN	ממ כ	T CA	c TC	c cc	G GA	C GA	G GAG	CTG	GAG	; ycc	N/G P
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n n (G TT F	c c	c m	רכ כא	C CA	G CC	C GT	GGI	T CI	G CC	T GA	C	2 GVC	CV	C CAG Q>
	•	1160)		117	0	•	. 1	180		•	1190		•	1200



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ΛCΛ T	GAC D	CVC		O CYC	TGG /	TO	CNG (O O	II CVC (CTG (D DVI (ν CC (CT G	n DC C	TG L>
		121	.0		12	20		1	230			1240)		
CGC R	ATG M			ATG M	GCC (φ C C C	λCλ Τ	¢ CCG	ECC .	מ כיזיפ (GGT (GAG (5TT (D VC (V)
1.250		1	260			127	0		1. 2	80		1	290		
	TGC C		GVC D	GTC V	тлл И	GTC V	CGC R	GGG G	CCT P	GAT ·	GGC	TTC . F	NCC (L>
130	00		13	310		. 1	320		•	133	0		13	10	
		QCC	TCC S	TGC C	λGC S	GGG	GGC	GGC	CTG L	GVC	λCG	GGC G	N VVC	NGC (GNG E>
. 1	350			136	50		13	370		j .	380		*	139	0
	GAG E		D CVC	GCG	CCG	GCC	GTC	ΛTC	TCC S	GVC	TTC	VLC I	TAC.	CNG Q	GS S
	1	100		. :	1410			147	20		14	30		. 1	440 -
GCC V	λGC S	CTG L	II CVC	yyc Yyc	D CVC	λCλ Τ	D GVC	CGC R	λCG T	GGC G	GλG E	λCC		TTG L	
		14	50		1	160			1470		Á	148	30		
CTG L	GCC N		CGC R	TAC Y	TCA S	CGC R	TCT S	GAT D	GCC •	gcc	λλG	CGC R			GNG E>
1490			1500			15	10		1	520		1	530		•
*		FGCλ	GλT	GCC	λλC	λTC	★ CNG	GΛC *	ννς	ΛTG	GGC	★ CGC	ΛCC	CCG	* CTG
	s		D	λ	N	I	Q	D.	И	М	G	R	Ť	P	い
15	40	*	1	550			1560 *			15	70	*	15	80	
CAT II	λ GC G	ς GCT λ	v GIG	TCT S	δC C	D GVC	y GCV	Q CVV	G GGT	GTC V	TTC F	Ø CVC	λTC	CTG L	I>
	1590)		16	00	*	1	610		•	1620		*	16	30
CGG	$\lambda \lambda C$: CCV	GCC	λCλ	. GVC	CTG	GΛT	GCC	CGC R	ΛTG	CVI	GΛT	GGC	λCG	УCС
	1	640			1650		*	16	60 *		1	670			1680
E CCV	CTC L	ATC I	CTG L	GCT	. CCC	CGC	CTG	GCC	GTG V	GNG	GGC	ATG	CTG	GΛG	GΛC
		1 6	90		1	700		•	1710)		17	20		
C1.C	*)T(!	א אס	TCA S	CVC	GCC	GΛC	GTC	: אאכ	GCC	GTA	GAT D	D D	CTG L	GGC	ang Po
1730			1740)	•	17	150		. 1	760		*	1770		•
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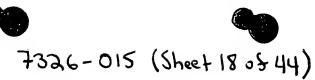
7326-015 (Sheet 160844)

178	30		17	90		. 1	.800		*	181	.0		18	20	
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	11	380		. 1	1890		*	190	00	*	19	10		. 1	.920
NNG K		CTG L	CTG	GΛC	CVC	TTT	GCC	ννς	CGG		λTC	λCG Τ	GAT D	CAT II	ΛTG I∕D
		19:	30		19	940			1950			19	60		
GNC D	CGC R	CTG L	CCG P	CGC R	GλC D	ΛTC	ν GCν	CAG	GλG E	CGC R	ΛTG M	CAT II	CAC	GVC D	
1970			1980			199	90	*	20	000	•		2010		*
			CTG	GAC	GλG	TΛC	λλС	CTG	GTG	CGC	AGC	CCG	CNG Q		ID CVC
20	20	*	20	030			2040		*	20	50		20	960	
	ν GCC	CCG P	CTG L	GGG G	GGC G	ΛCG T	P CCC	ΛCC	CTG L	TCG S	b CCC	CCG E	CTC L	TGC C	TCG S>
	2070		*	20	80	*	2	090			2100		*	. 21	10
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*	2	120			2130		•	21	10	*	2	150			2160
	CGC R				λGC	ννν	GGC	CTG	GCC				λλG K		
	*	21	70 *	*	2	180		•	2190		*	22	00	•	
													λλG K		TGC C>
2210		*	2220		*	22	30	•	2	240		*	2250		•
	CTG L	GΛC	λGC	TCC	GGC	ΛTG	CTC	TCG	CCC	GTG	GAC	TCC	CTG L	GAG	TCA S>
22	60		2	270			2280		•	22	90	•	2	300	
													CTG L		TCC S>
*	2310			23	20	*	2	330		*	2340		*	23	50
CCG	TTC	CAG	CAG	TCT	CCG	TCC	GTG	CCC	CTC	VVC	CAC	CTG	CCT	GGG	ATG
	2	360			2370			23	80		2	390			2400



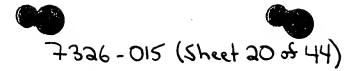
7326-015 (Sheet 17 of 44)

	D D	ΛCC Τ	CAC	* CTG L	¢ GGC G	λΤC I	¢ GGG G	CVC	CTG L	и vvc *	G.LC A	ւcc Ն	GCC N	* ለአG K	ccc p>
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האס E	λTG M		ς GCG λ		GGT G	GGG	GGC		CGG		GCC A	TTT F) T	GGC G>
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δ CCV		CGT R		TCC S	CVC	CTG L	CCT P	GTG. V	GCC λ	TCT S	GGC G	λCC Τ	λGC S	ΛCC	GTC V>
250	0	٠	25	510		. 2	520		*	253		*	25	540	
	GGC G			λGC S	GGA G	GGG	GCC	CTG	N N	TTC F	VCT T	GTG V	GGC G	GGG G	TCC S>
2	550			250	60		25	570			2580			25	90
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b CCC	CTG L	λGC S			GCC	CCC	TCC	CTG L	CVC O	CAT II	GGC G	λTG M	GTA V	G G G G G G G	CCG P>
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			2700			27	10		2	720			2730		
		*	λGC	CTT	¢ GCT λ	GCC	* λGC	GCC		* TCC	C'VC	* λTG	λTG		
	11	λgt	λGC S	CTT L		GCC λ	λGC S	λ :	CTG L	* TCC	Q	* λTG	ΛTG M	λGC	
L 27/ CAG	II 10 • GGC	ΛGT S	λGC S	CTT L 750	λ	GCC A	λGC S 2760 CTG	Λ : GCC	CTG L	TCC S 27 CAG	Q 70 CCT	ATG M	ΛΤG M 2	λGC S 780 •	Y>
L 27/ САG Q	11 10 GGC G 2790	AGT S CTG L	AGC S 2 CCC	CTT L 750 AGC S	λ ΛCC T	GCC A CGG R	AGC S 2760 CTG I	λ GCC λ	CTG L * ACC T	TCC S 27 CAG	Q 70 * CCT P	ATG M CAC	ATG M 2 CTG L	AGC S 780 * GTG V	Y> CAG Q>
L 27/ CAG Q *	11 10 GGC G 2790	AGT S CTG L	AGC S 2 CCC P	CTT L 750 AGC S 28	λ	GCC A CGG R	AGC S 2760 CTG I	GCC A 810	CTG L * ACC T	TCC S 27 CAG Q	Q 70 CCT P 2820	ATG M CAC H	ATG M 2 CTG L	AGC S 780 * GTG V 28	CAG Q> 30 CTG
L 27/ CAG Q *	GGC G 2790 CAG	AGT S CTG L	AGC S 2 CCC P	CIT L 750 AGC S 28 CAG	A ACC T 00 * CCA P	GCC A CGG R CAA	AGC S 2760 CTG I, 2 AAC N	GCC A 810 TTA L	CTG L ACC T	TCC S 27 CAG Q	Q 70 CCT P 2820 CAG	ATG M CAC H	ATG M 2 CTG L CAG	AGC S 780 GTG V 28	CAG Q> 30
L 27/ CAG Q * ACC T	GGC G 2790 CAG Q 2	AGT S CTG L CAG Q 840	AGC S 2 CCC P GTG V	CTT L 750 AGC S 28 CAG Q ATC	A ACC T 000 * CCA P 2850 * CAG	GCC A CGG R CAA Q	AGC S 2760 CTG I, 2 AAC N	GCC A 810 TTA L 28	CTG L ACC T CAG Q 60 AGC	TCC S 27 CAG O * ATG M	Q 70 * CCT P 2820 * CAG Q 2	ATG M CAC H CAG Q 870 * CCG	ATG M 2 CTG L CAG	AGC S 780 * GTG V 28 AAC	CAG Q> 30 • CTG L>
L 27/ CAG Q * ACC T	GGC G 2790 CAG Q 2	AGT S CTG L CAG Q S40	AGC S 2 CCC P GTG V	CIT L 750 AGC S 28 CAG Q ATC I	A ACC T 000 * CCA P 2850 * CAG	GCC A CGG R CAA Q CAG	AGC S 2760 CTG I, 2 AAC N	GCC A 810 TTA L 28 CAA	CTG L ACC T CAG Q 60 AGC S	TCC S 27 CAG Q * ATG M	Q 70 CCT P 2820 CAG Q 2 CAG	CAC H CAC H CAC F	ATG M 2 CTG L CAG Q	AGC S 780 * GTG V 28 AAC	CAG Q> 30
CAG Q ACC T CAG Q CCA	GGC G 2790 CAG Q CCA P	CAG CAG CAG CAG	AGC S 2 CCC P GTG V AAC H	CIT L 750 AGC S 28 CAG Q ATC I	A ACC T OO * CCA P CAG Q 2	GCC A CGG R CAA Q CAG GGC	AGC S 2760 CTG I 2 AAC N CAG Q	GCC A 810 TTA L 28 CAA Q	CTG L ACC T CAG Q 60 AGC S 2910	TCC S 27 CAG O ATG M	Q 70 * CCT P 2820 * CAG Q 2 CAG Q * CA	CAC H CAG Q 870 CCG P 29	ATG M 2 CTG L CAG Q 20 * GGGG	AGC S 780 CACCA CCAC P	CAG Q> 30
CAG Q ACC T CAG Q CCA	GGC G Z790 CAG Q CCA P	CAG CAG CAG CAG	AGC S 2 CCC P AGTG V AGC NACC N CCG P CCG	CIT L 750 AGC S 28 CAG Q ATC I CAC	A ACC T 00 CCA P 2850 CAG Q 2 CTT L	GCC A CGG R CAA Q CAG Q GGC G	AGC S 2760 CTG I 2 AAC N CAG Q GTG V	GCC A 810 TTA L 28 CAA Q	CTG L ACC T CAG Q 60 AGC S 2910 TCA	TCC S 27 CAG Q ATG M ATG A CCTG L	Q 70 2820 4 CAG Q 2 CAG Q 4 GCC A	CAC H CAG Q 870 CCG P 29 CAGC S	ATG M 2 CTG L CAG Q 20 * GGGG	AGC S 780 CAC R CAC R CAC R	CAG Q> 30 CTG L> 2880 CCA P>

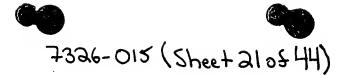


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•	3030		•	304	10		30)50 *			3060			307	70 *
CCC P	GCC λ	CTG L	P CCC	λCG T	TCG S	CTG L	Б ССУ	TCC S	TCG S	CTG L	GTC V	5 CCV	CCC P	GTG V	ACC T>
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y CCV	ςCC	Q CVG	TTC F	CTG L	λCĠ T	CCC P	CCC P	TCG S	CNG Q	H CVC	AGC S	TAC Y	TCC S	TCG S	CCT P>
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GTG V	GλC D	N VVC	ΛCC	CCC P	λGC S	H CVC	CAG Q	Ι' CIV	CNG Q	GTG V	CCT P	GTT V	CCT	GTλ V	ATG MD
3170		,	3180		•	319	90		32	200		. 3	3210		
GTA V	ATG 11	λTC I	CGA R	TCT S	TCG S	GAT D	CCT P	TCT S	λλα Κ	GGC G	TCA S	TCA S	ATT	TTG L	λTC I>
327	20	*	37	230										•	
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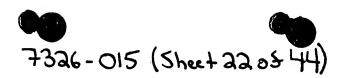
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TTC (GTC Val	TAG Tyr 50	d fin dvd	ggT GLy	occ Mla	NGC NGC	CTC Leu 55	CAG ·	occ Ma	chd clu	NCA (The	en Vab Gve	yı.d Caq	The	cct cly	190
GNG G1n	710 Het 65	GCC VI a	CTG 1.gu	II j'u CVC	CTT Leu	0CA A1a 70	vI ::	y ad Cac	TAC Tyr	TCA Ser	CGG Arg 75	OCT OLA	Նոև Ը ∨ Д	OCT Ala	GCC Mla	238
7.70 1.70 110	Vr d CCT	CTC Leu	CTG Leu	Vub GVI.	UCN NLa	GGT GGT	VIV	דאט קווא	VI a	700 7011 707	V) a	Glu	V a b G V C	Van VVC	NTC Het 95	206
GGC Gly	yı.d GGC	1GT	CCA Pro	CTC Leu 1(1()	113,0	vfa GGL	nla Nla	CTC Val	GCN N1a 105	rla Nla	Vul CVI	CCC N1a	eju cvv	CCT Cly 110	4 X	33,4
TTC Plue	CVC	7.1.1 1.1 c	crd Leu 115	Ile	yrd CGC	VIIII VVC	yrd	(TA Val 120	ACT The	CVI.	CTA Lou	CVL	000 NIa 125	4	NTC Hot	382
አካባ አካባ	yab	GG1 G1y	The	nch The	ccc l'ro	CTG Leu	77C	CTC Leu	oct	occ NIa	vi:à cac	C1C Leu 140	WES	orc val	Glu	430
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AGC Ser	TN	r ch r cl 21	a vl	ע טנ ט ט	c אא a Ly	a 114	2 C1 2 Le 21	U 1.01	1 Vul	L ul	r 177 a Pla	τ σσι 9 λ1: 22:		I CC	d yub V GVC	670
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Pro	Val	vul	Ser	140	Clu	Seg	tro	Hla	The 345	Τγι	Vai	Seg	Vale	The 350	The	
TCC	TCT	CCV	ATC	V.1.1.	VCV	TCC	CCT	ccc	ΛTC	TTA	CVC	CCC	1.CV	CCC	VVC	1102
Seg	Sec	Pro	Het 355	110	The	See	Pro	G1y 360	114	1.00	Clu	NΙα	5ec 365	Pro	Van	
CCT	MIG	TTC	GCC	VCL	ac.c	CCC	CCT	CCT	GCC	CCV	GTC	CAT	CCC	CVG	CVI	1150
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	785					DEE					395					
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				Ser					Λla	C1y				Pro	Gla	15.14
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Het Pro Cln Clu Amp Cly Cln Val Ala Clu Thr 11e Leu Pro Ala Tyr 545 550 555	1678
CAT CCT TTC CCA GCC TCT GTG GGC AAG TAC CCC ACA CCC CCT ŤCA CAC Illa Pro Pho Pro Ala Ser Vall Gly Lya Tyr Pro Thr Pro Pro Ser Gla 560 575	1726
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GGT CAC CTG CAG GGT GAG CAT CCC TAC CTG ACA CCA TCC CCA GAG TCT Gly Him Lou Gla Gly Glu Him Pro Tyr Lou Thr Pro Ser Pro Glu Ser 595 600 605	1022
CCT GAC CAG TGG TCA AGT TCA TCA CCC CAC TCT GCT TCT GAC TGG TCA Pro Anp Gln Trp Ser Ser Ser Pro IIIn Ser Ala Ser Anp Trp Ser 610 615 620	1870
GNT GTG AGG AGG AGG CGT AGG CGT GGG GGT GGT GGA GGA GGT CAG CGG Aup Val The The See Pro The Pro Gly Gly Ala Gly Gly Glu Arg 625 630 635	1910
GGN CCT GGG NCN CNC NTG TCT GNG CCN CCN CNC NNC NNC NTG CNG GTT Gly Pro Gly Thr IIIs Het Ser Glu Pro I'ro IIIs Nan Nan Het Gln Val 640 655	1966
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TICACTOGGT ATCTGCAAGG CITATTGATT ATTCTAATCT AATAAGACAA GITTGTGGAA	2202
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GGATGCTTAT TGAAGCCCAG ACATTCTTGC AGCTTGGACT GCATTTTAAC CCCTGCAGGC	2322
TICIGCONIN TOCNIGNONN GNITCINCNO TNGCGTCCIG ITGGGNNITN IGCCCIGGNN	2382
TICTGCCTGN NTIGNCCINC GCNTCTCCIC CICCTTGGNC NTICTITIGI CITCNTTTGG	2442
TGCTTTTGGT TTTGCACCTC TCCGTGATTG TAGCCCTACC AGCATGTTAT AGGGCAAGAC	2502
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CITCCCGGIA TCCCTTGGAG TCTCACAAGG TTTACTTTGG TATGGTTCTC AGCACAAACC	2622
TITICANGIAT GITGITTCTT TGGAAAATGG ACATACTGTA TTGTGTTCTC CTGCATATAT	2682
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TTACCAGGAA GAAGGGTGTG AGTTTGTTGT TTTTCTGTGT ATGGGCCTGG TCAGTGTAAA	2062
CITITATECT TONINGTEIN CITACINION COCTOCONO TITITINANA CONGANANAG	2922
CITICGNATO TECGNATORE CNAGRONEAR CITARCICGI GERAGAGEER CITACCERCE	2982
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CCCNGNTCTG AGENTTCTAG GCGTGTTTCA CTCAGTCACC CAGCATATGA AACTAGTCTT	3102
NACTOTIONG COTTICCTIT CATATCONON GANGACACTG TOTOMATGT TGTACCCTTG	3162



CCVITINGGY	CLCVVCLLLC	CTIVCCCVV	CCCVCCCVCL	CVCVCLICIC	TTUCGTTTGT	3222
CVCVICVICV	GICICIVCIC	VLLVLCLLCC	TCCTTNNNCC	CCTCCTCACC	NATCTITCTT	3282
TCACACCGTG	TOCTCCCTCT	TACTCCTATA	CCCNCTATCT	TCTCACTGAA	CVCVICCVCI	3342
TIVIVICITC	VVGLGCVGGV	νιπασννναπ	TCCACTTCTT	TTCTATCATC	CVVVVCVCCC	1402
C1 V1.VVCVVC	CTTCCNANAC	GVGGVVCLVL	VAVGCVGGGA	1.1.66.1 v.1.1.1.1	CLCCTVCCVL	3462
TICTITICCT	C1.CVYCCCCC	CVICVCVIIC	CCTTTGGCVV	CTVVCCTVCV	VVCTCVVCVC	3522
VVCVLLL1.CC	TTTCCTAGAG	TCVCCTTTTV	CVICVIVVIC	CVCVVCLVLV	GVCLLCCLCV	3582
TICITCVCVC	1CV1.1CCCCC	TCACCTGAAT	CCVC.LC.LC.LC	TATTCATCCT	CTTCCCNNTT	3642
TCTTTCACTT	TCTTTTNNCG	CCVCVVCCVI	TTTACTTAAT	ΤΟΤΛΩΛΤΛΛΛ	CVVLVCL1.LL	3702
CLICCICIIC	TCCTTCGGCC	ναττνντνντ	TGGTCCVTGG	CIVCVCICCV	VCLLCCULCC	3762
VCLCCLCLCV	TCCCCV.LCVC	VCCLCCVVVV	TVVCLLCLCC	CICCCCVITT	TGTAGATATT	3022
VVCVCCTCVV	TICCCGACTC	1111.6611.16	ΝΝΤΟΝΟΛΟΤΤ	CTCATTCCTT	CIVICCLICC	3802
VVCLVLCCVL	CVGLCCLLCC	CVCLLVCCLC	VLLLCLCLCL	СССТСССССС	VIVIGGVVVC	3942
CCLCCCLCLC	TCTTCCCVTV	VIVCILIVCV	VVACCITALA	TCACTCCTAT	CCVVV.LLIVL	4002
TGNNCCNNCN	ΛΥΓΙΛΛΊΤΛ	CLICICCCCT	ανανπνώςν	CVIIVVCIII	CTTCATTCTC	4062
TCCTTTATTC	TCTCCATGTG	GCVVCVLLCL	GTCNGCCTCT	TTCNTAGTCT	CCVVVCVIII	4122
ΤΝΤΟΝΊΤΟΤΝ	VVLCGLCVCL	CTCTGCCCTT	CCVCCCVLLL	ΛΤΤΛΤΤΟΛΟΛ	GNTGGGGNGN	4182
VCCLVLCLCC	VLCCVCCCLC	VCCVICCTCT	CTCCVCCVCV	CVCVGTGCVC	GGVGCCVGTG	4242
	1.CVCTT.LCL.L					4260

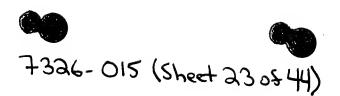
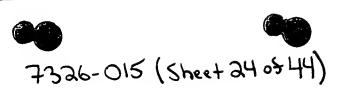




FIG. 12 A-B



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FIG. 128 CONT'D

SILE BGF-like Repeats A RA A RG RESPONDED. NESHCHAM GROUGKEPES FLEEVOHRD PCE-KNRCON GGTCVAOA RETOTALVA SCTSVG-CO NESHCENTON OFFICKORD. VPERROPEN PCL-STPORN AGTCH-VAOA COVORTORE NESHCON SCTCHAMAR SCTSVG-CON GGTCVAOA COVORTORE NESHCON SCHOOL NESHCON GGTCH-VAOA COVORTORE NESHCON SCHOOL NESHCON FOLL SINGON FOTCEPHOLOGI CONORTORE NESHCON SCHOOL NESHCON SCHOOL NESHCON FOTCEPHOLOGI CONORTORE NESHCON SCHOOL NESHCON SCHOOL NESHCON FOTCEPHOLOGI CONORTORE NESHCON SCHOOL NESHCON SCHOOL NESHCON FOTCEPHOLOGI CONORTORE NESHCON SCHOOL NESHCON SCHOOL NESHCON FOTCEPHOLOGI CONORTORE NESHCON SCHOOL NESHCON SCHOOL NESHCON SCHOOL NESHCON FOTCEPHOLOGI CONORTORE NESHCON SCHOOL	CPOMSOKS CONTOACISHP CANOSTICTTV ANOFSCIKE LTOFTOOKES CANOTOERC STRUCASSP CANOCICLEF EASYTCHC PPSFHOPTER CANOTOERC STRUCASSP CANOATICTAL AGSSSFTICSC PROFINATION OFFICER NTRACES	NEOVICIONA GINSODESEN IDDAFASET POSTEDENE ROPESEN INDEPENDE NUMBER ONCOVERY MINISTERE MIDERANGE NUMBER NUMBER ON MINISTERE MIDERANGE MIDERANGE MIDERANGE MIDERANGE MIDERANGE MIDERANGE MIDERANGE MIDERANGE MINISTERE MIDERANGE MIDERANGE MINISTERE MIDERANGE MINISTERE MIDERANGE MINISTERE MIDERANGE MINISTERE MIDERANGE MINISTERE MIDERANGE MINISTERE MINISTERE MINISTERE MINISTERE MINISTERE MIDERANGE MINISTERE MIN	AFHCECLKOY AGPREBUDIN ECHSDECOND ATCLEMINGS FUCCEPHOR TOLLCHLANDA CISNECHEDS NETHPRINGS ALCTOPOSTS CANCIEDVDE CALCINANDEE HAGKCINTEG SPECOLLOGY AGPREBUN ECHSDECOND ATCLEMINGS TOLCHEDDA CTSNECHADA ICDTSPINGS NACTOPOSTS OPACSOVDE CSLG-ANNEE HAGKCINTEG SPECOLLOGY AGPREEDIN ECHSDECOND ATCLEMINGS TOLCHEDA TOLCHEDING SPECOLLOGY AGPREEDIN ECHSDECOND ATCLEMINGS OF CHARGE SPECIATION ECHDOLOGY OF CHARGE SPECIATION CHARGE SPECIATION ECHDOLOGY OF CHARGE SPECIATION CHARGE SPECI	GSCLODPOTF RCYCHOTED LYCETHIDE ASSPCLINGER CLOTHERGE, EPPETTOPY COIDIDGESS TPCLANAKCI DIPNAYEGG SYTCICING YMALICSDOL DETSSPCLA DORCIDINAC CONTINUENCE, CONTINUENCE CONTINUENCE CONTINUENCE CONTINUENCE CONTINUENCE CONTINUENCE DEPRESSIONE CONTINUENCE DEPRESSIONE CONTINUENCE STATEMENT INTERCEDED TO THE CONTINUENCE CONTINUENCE DEPRESSIONE CONTINUENCE STATEMENT INTERCEDED TO THE CONTINUENCE CONTINUENCE STATEMENT INTERCEDED TO THE CONTINUENCE	MSFKCLCDPO TYCHICDNOI NECESPECIA ROTCODEDIA TICTCIANTO CASIPETHEO CASIPETHE- ICHGGINAYS (PECPHAPSC YSQVNECLSIV PCT-HGAVET GLISCOVACE YYCCCOAGTS GRACETAIDD CASSPECIA- ICHGGINAYS (PECPHAPSC YSQVNECLSIV PCT-HGAVET GLISCOVACE YYCCCOAGTS GRACETAIND CASIPEDIANG KIDNIDGYE C PROFINDATE LEEVINECASI PCT-HGAVET GLISCOVACE TO COASIPEDIANG TO COASIVE C	TOUNGYNCE CPRGFVDHC LSEVNEDASIN PET-HOACHD SLACKCOOD POWSTINCEV DRINELSNPC ONCOTCONLY MOTACTCING FROMCOON! YTCHCVLPYT GANCGYLAP GSPNCEASN PCANEGRED GINEFICHCP POYTOKREE DIDECSSNPC WAGTCONT SAITCTCING FROMCOON! YKCNCLLPYT GANCEVLAP CAREEVIAP GASPROBANA VCRESPRES YTCLCA-PGN POONTREE DIDECSSNPC QHOOTCYDKL MASCOCHPO FSOPNCON! WKCNCLLPYT GANCEVLAP CAREEVIAP GASPROBAG FOR THE STORY POONTREE DIDECSSNPC QHOOTCYDKL MASCOCHPO YTGRCEN!	LICIPOFICO KCEFNING ACRESCOPET SCIECE-POM CONTENTIND EX-ISKPCIM HILLHWINGS WICEPPOFS GNICEEDIDD TOLLEGEND KCYTOWNECL SEPCIMENT SCIECE-POM CONTENTING WICEPPOFS GNICEEDIDD NOLLOGENG KCYTOWNECL SEPCIMEN STATISMEN SATISMEN	LECTOPIDE HETDINEL SOFCONGANCÉTICOVASTICE CONFESSION ENVINEERES SCENOCICO DINSFECLE VOPTOSPELH TRANÇOILV NICERSPECIA, KOTEURIATE SOCIÉPSOINE CONDECTES SCENOCICO, CINSFECLE POPTOSPELH TRANÇOILV NICERSPECIA CONCENÇITION NICESSES SON CONCENTRATION CONTRACTOR CONCENTRATION NICESSES SON CONCENTRATION COPPOSITION NICESSES SON CONCENTRATION COPPOSITION NICESSES NICEDIAL NICESSES NICESS
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FIG.13 cont'D

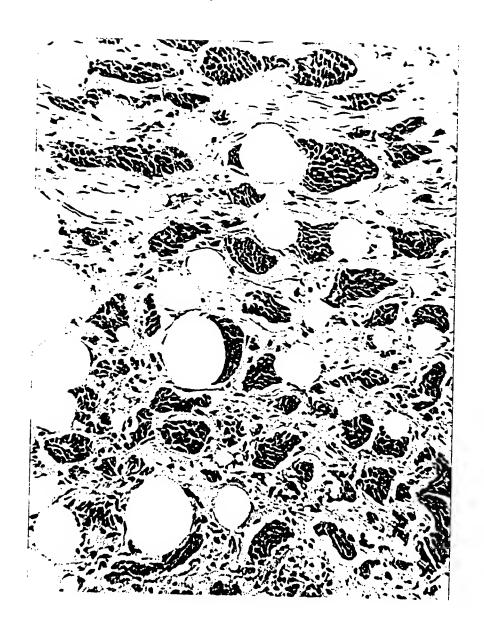
1267 1271 1269 1306	1376 1389 1387	1476 1501 1498 1531	1591 1619 1615 1650	1680 1737 1730 1745	1782 1837 1831	1902 1954 1949 1976	2022 2074 2069 2096	2127 2178 2170 2208	2169 2219 2213 2327
SNPCOHGATE SPITOCYREE CVPOYGOVIC EVEVDECQNO PCQNOOTEID LVNHFKESCP POTRGILCEE NIDDCARGPHCIM OOQCHGAIGO YSCRCLEGFA GERCEDDINE PSPCQNAATE TOYLOGYSCE CVAATHOWIC SEEIDECLSH PCQNOOTEID LINTIKGSCP:ROTOGOVICEI NVDDCNPPVD PVSRSPRCFN NGFCVDQVGA YSTEPPBFY GERCEDDINE PRPCQNOAATE TOYLOGYSCE CNAATHOWIC SEEIDECLSH PCQNOOTCID, LINTIKGSCP:ROTOGOVICEI NVDDCNPPVD SFTLEPKCFN NGKCIGNVOA YNCICPPPGFY GERCEDDINE SOPCQNOATE TOLIGAYECQ CROAFGONE ELAIDDCAPPP PCQNOCTCHD RVMFSCSCB;POMOITCEI NKDDCRPAACHN:NGSCIGNVOA FECVCQDGFY GARCEDDINE	CLSNPCSEES SLOCIOLTND YLCYCRSAFT GRHCETFYDY CPQHPCLMGD TCAVASNAPD GFICRCPPGP'SGARCGS SCGOWICRIG EQCYHTAS GPRCFCPSPRDCES CLSNPCDARG TQNCYQRYND FHCECRAGHT GRRCESYING CKGRPCKNGD TCAVASNTAR GFICKCPAGF, EGARCGS SCGOWICRIAG FOSTISGRP SPTCLCLAPF TGPEGGFRAS CLSNPCDARG TQNCIOLVND YRCECRQGFT GRRCESYVDG CKGHPCRNGG TCAVASNTAR GFICKCPPGF LGARCFTUSR TCSSILACONG TGTSTST SSKCYCSEDY TGATCQYVII CLSNPCSNAG TLOCVQLVNN YRCHCRPCHH GRHCERKVDF CAGAPCQNG TGAVASNTAR SSKCYCSEDY TGATCQYVII CLSNPCSNAG TLOCVQLVNN YRCHCRPCHH GRHCERKVDF CAGAPCQNG TGAVASNTAR SSKCYCSEDY TGATCQYVII CLSNPCSNAG TGCTSTAR SSKCYCSEDY TGATCQNG TGATCANADGO FORENCESHOLD TGATCQNG TGATCANADGO FORENCESHOLD TGATCQNG TGATCANADGO FORENCESHOLD TGATCANATA TGATCANADGO FORENCESHOLD TGATCANATA TGATCANADGO FORENCESHOLD TGATCANATA TGATCAN	LIMENDEMING SSPLECWDYI LAFNDEMING TOSLOCHINYF LAFNDEMING TOSLOCHINYF LAFNDEMING TOSLOCHINYF LAFNDEMING TAN-ECHNIKF	NN-QCDELCH TVECLFUNFE COMSKYCKYDKYCADHF KONHCNGCH, SEECHMOLD, CHOOPEN-L AECTLVIVVL HPPEQLLODA R-SFLAKLOT LLHTNIRIKA DSQDELMYPP SOCHCDSQCN SACLFDGFD CORAEGONP LYDXYCKCHF SICHCDGCH SAECENGID, CHENDYDRA AECTLVIVVL HPPEQLANS SFHFIRELSR VLHTNYVTKR DSKGEYKYPP NOCKCDSQCN NTCCLYGFD COKVEYQCNP LYDXYCKCHF OCHCDQCH NAECENGOD CHANHEN-L AECTLVILVVL HPPELLKINS V-HFIÆLSR VLHTNVTKK DSKGEYKYYP NOCKCNSECN NAACHYDCHD CERKLKSCDS LFDAYCQKHY GDCFCDYGCN NAECENGOD CHANHEN MOVERFREIQ A-OFLANNSH KIRTTVRLKK DALGHDIIIN	YYGERSAAKK KQ-RHTRRSL PGEQE QEVAGSKVFL EIGNRQCVQD SDHCFKNTDA AAALLASHAI QGTLSYP LVSVVSESLT PERT-Q-LLY YYGREEELEK HPIKRAABOW AAPDALLGQV KASLLPGGSE GGRRRRELDP HDVRGSIYVL EIGNRQCYQA SSQCFQSATD VAAFLGALAS LGSL-NIPYK IEAVQSETVE PPPPAQ-HFF YYGNEEELKK HHKRSTDYW SDASAI FSTHKESIL LGRHRRELDE HEYRGSIYVL EIGNRQCYKS SSQCNSATD VAAFLGALAS LGSLOTLSYK IEAVKSENNE TPKPST-LYP WKDNYRVPEI EOTDFARKYK ILYTQQVHQ	SYQVSEAN LIGTGTSEHW VDDE	LAARYSRADA - AKRILLDAGAD LAARYSRSDA - AKRILLDAGAD LAARYARADA - AKRILLDAGAD LAARFARADA - AKRILLDAGAD	ANAQDNGRC PLHAAVAADA QOFQILIRN RYTDLDARNO DOTTPLILAA, BLAVEGAYAE LINCOADVAA, VDDHGKSALH, MAANNOVEA, TLLLLAGGAN, RONGONKEET PLFLAAREGS ANYOGNNGRT PLHAAVAADA QOFQILIRN RATDLDARNO DOTTPLILAA, RLAVEGAYEE LINCOADANA, VDDHGKSALH, MAANNOVA, ANYLLAGGAN, KONGONREET PLFLAAREGS ANYOGNNGRT PLHAAVAADA QOYFQILLRN RATDLDARNO DOTTPLILAA, RLAVEGAYEE LINCHAÜNAN, VDRGOKKEET SLFLAAREGS ANYOGNNGRT PLHAAVAADA MOVFQILLRN RATDLARRAN DOTTPLILAA, RLAVEGAYED LITADAÜNAN, MAANNORTEN, VNILLAGHAN, RONGONREET SLFLAAREGS 20	FANRDITOHH DRLPRDVARD RAHHDIVRLL: DEYNVTPSPPGTVLTS ALSPV	LE SPHÖLVSOTT SSPM. LE SPHÖLLSDVA, SPPL. LE STHÖRLSDVA, SPPL. KA ANLAKGLARGQ LTGGVSGVPG VPPTNSAAQA AAAAAAVAA HSHELEOSPV GVGHOGNLPS PYDTSSNYSN AMAAPLANGN PHTGAKOPES
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FIG. 13 cont's

2235 2306 2294 2445	2320 2414 2384 2565	2433 2530 2497 2671	2471 2556 2523	
THE SOLUTION TO HE HELD THE SERVICE OF THE SOLUTION THE S	THE INVARIANCE MASHELMON AND AND AND AND AND AND AND AND AND AN	PUPVPAN. SCHVPRAN. SCHVPRA	P ANGELPTHY GIPEN ARL-PSYAPP THENCE ED ALPTSLESSI VPPTITACE TEPEGRISS S-PHONTE-D-SY PRESERVEN MASSICAL ANGELPTHY GIBLIANT CONTINUED TO THE STANDARD THE STAND	
PLAHGAST SH LEVASGTST TH L-NASSPW PY SNOSPPHS	TF OLIPKGSI OTO QVQPQNIK QAQ QWQQQQN QAQ QWQQQQN	Region PSHESCHLOGE TPSHESCHLOGE	THORETON	
A FETGPPRUM FILE	RE PLPP-IV RL ATOPHLV RL ANOPHLM	Containing YAS SNAAER YAS SNAAER	Y-s s-Park	
AALOOGGRL	GGLSGAUM GGLSGAUM GGLSGAUM GGLSGAUM GGLSGAUM GGLSGAUM	PEST-C	PL TPPSOHS	
ALSFSNLHEN LINVAA-KPEI TNMAT-KQEI	GVLPGGLCG	S LGIISPTO	sl vppviaa NL toskita So hnqoafy	
APPAPVHAQH HPDTHLGIGH	HPESQLORING GROOTENGE GROO	PATTLSOHM U GOGPONSPV U GOGPONSPV	SP ALPTSLES TO IFAASLES SP STNMLSPS	
PNPMLATA PSVPLNHLPG	PSMPLNHLTS LLNGQGLGMN LLNGQGLGMN PAEG-THPGI	LMTS-LHNG CCCCCCCCCC	P TAMPLYOUS V HTILPQ-E: I HSVMPQ-D' I QSSMSG-S	
Spot Page	September 1	STOAPSLOHG AQOAOALQHG LGGANGGGV	ARL-PSVAF OPLOPSSLA OOM-SSWN	PHYN HQVYA FK FK .IYI
	IKLDNYAYS	LRGSVAPGPL IRNGIQQGN- QFGGSNLNSL	QIPEN LSGEPSQADY CSSDISQTDI CGSPDSFHSC	THORACGOR GPOTHWEEPHIN HOVYA PTSHO SQIARIPEAFK PTSHO PORTHIPEAFK AMINIYISGS HOMKGSEAIYI
	dspagagra	SCHVPADW-SCHVPNOYNP NCHVQNQYDP QAMRHATQQX	avagplpthy Aaschlorsf Ttsthinspf Saglding-f	THOGACGGO
	K 11	SAGSLSRLH FOCEMLSRLO SQCDWLARLO SQCDWLARLO SSLPTSPTHI	APOPOSTCPP AVI PPOPHLOVSS AA MOOOHIN-SS TT OOOLGOLEFO SA	SDMSDVTTSP. SDMSDGVSSP. SDMSDG1SSP. SDMSDGVGSP.
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	hum N TAN-1 Xen N Dros N	hum N TAN-1 Xen N Dros N	hum N TAN-1 Xen N Dros N	hum N TAN-1 Xen N Dros N



FIG.14



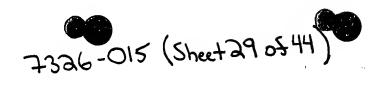


FIG.15A

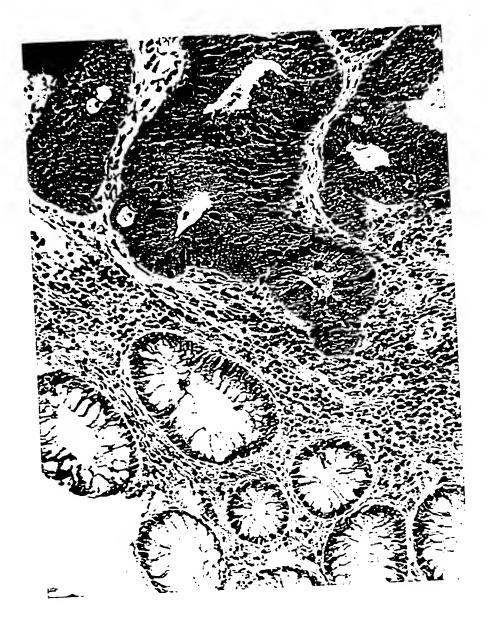


FIG. 15B

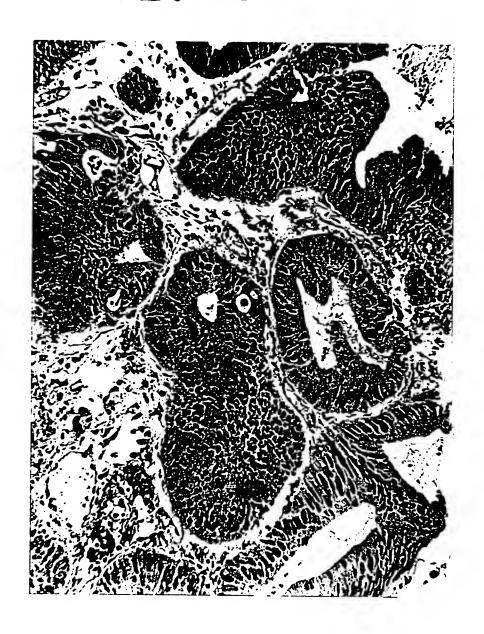


FIG. 16A





FIG.16B



06 ⁻		ATTGCAGTGT	о О	180	*	AGGCTTCTTG	∆ 1 34	270	* 000	GGGGAAAGCC G K A>	360	CCTGAATGGC	r S	450	GGATGCCTGC	€ Q	540	AGGGCAGAAA	Ω Ο υ	630	CCAGTGCCAG	ô ∪ o	720		GACAGCCIGT ANGIGCCTG TICACCTCA CLIGACICA ANGIGAGGAAC CLIGACGAAC D S IL Y V P C A P S P C V N G G II C R Q>	810	*	ACTGGTGACT TCACTITICA GTGCAACTGC CTTCCAGGTT TTGAAGGGAG CACCTGTGAG AGGAATATTG ATGACTGCCC TAACCACAGG T G D F T F E C N C L P G F B G S T C E R N I D D C P N H R>
80	*	CCCCCCATGC	4 H K	170	*	AATGTCCAGA	× ∪ M	260	* !	AGGCCATGCT Q A M L	350	CTCGACCCTG	EDC QYSTSHPCFVSRPCLNG>	440	GCCAATGGAC	GKECOWT	530	CAGGCTTCAC	CTT VANOFSCKCLTGFFGQK	620	CHICATHURCHA	P G S Y	71.0		N G G T	800	*	ATCACTCCCC D D C P
70	*	Tececeacce	A A U	160	*	GGATACTGCA	ა ჯ უ	250	*	rererecee	340	TOTOTOTO	C F V	430			520	AAATGCCTCA	X C L	610		LNL	700		P C V	790	*	AGGAATATTG R N I
09	*	CTGGCTGTGC	2 2 13	150	*	CAATGGCACA	Z C	240	*	TEGTEGGACT G G T	330	* STOTE CONTRACTOR	SHP	420	W. C.C.C. Straint B.C.B.	GFT	510	CHALLINGTON	N C	009		G T C	069	*	TECACCINA A P S	780	*	CACCTGTGAG T C E
50	*	TOCTGGCGCT	LIAL	140	*	TTACCTACCA	V T X	230	*	OCTGCCAGAA	320	TACTION TO BE	OXST	410		YECTCOV GFT	200	and and only	VANO	290	*	C Q H G	089	* 0000	Archeccire Y V P C	077	*	TTCAAGGGAG F B G S
40	*	CTGTGGGCGC	LWA	130	*	GGAATGTGTG	S R	220	*	GAGAAGAACC E K N	310	*	E D C	400	***************************************	Y E C	490		CTT	580	*	P G H	670	*	GACAGCCTGT D S L	160	*	CTICCAGGIT L P G
30	*	CCCCCCTCTG	PAL	120	*	TGTAAATGAA	2 2 >	210	*	AGACCCCTGT D P C	300	*	F T G	390	*	R D T	480	1	G S T	570	* 6	C D I	099	*	CCAGTACTGT Q Y C	750	*	CTECAACTEC
20	*	50500050	PALR PAL TWALLALWIC CAA PAHA LOC>	011	*	CGREATGGCT ATGAACCCTG TGTAAATGAA GGAATGTGTG TTACCTACCA CAATGGCACA GGATACTGCA AATGTCCAGA AGGCTTCTTG	YEPC	200	*	gecaacatics agaccocigi gagaagaacc getegcorgaa testegegact tstrengegect aggeclatistic $_{ m C}$		* *		380	*	GCACATUCC ATATICCTORS CUSSIANCE G T C H M L S R D T	470	* * * * * * * * * * * * * * * * * * * *	P C A N G S T	260	*	CETOVE BOVE COIPEGE CO	650	*	TOCCTCAGG GCTTCACAGG CCAGTACTGT	740	*	TCACITITICA F I F E
10	**	GCAATTCCCC		90	*	CGAGATGGCT	R D G	190		GGGGAATATT G E Y	280	* # 5000000	ACGIGCCGAI T C R	370	* 000	GCACATECC	460	*	L S H	550	*	TGTGAGACTG C E T	640	*	TGCCCTCAGG	730	*	ACTGGTGACT T G D

006 *	CACAGAGGAT T E D>	990 * ATGTGTCAAC C V N>	1080 * CCGIGIGGCC R V A>	1170 * CAAGGGGGCA K G A>	1260 * TGTGGATGAA V D E>	1350 * GAAGGGITAI K G Y>	1440 * TGGAGGCTTC G G F>	1530 * CAATGGGCAG N G Q>	1620 * CTGTTCCAGT C S S>
890	TGTCAGAATG GAGGGGTTTG TGTGGATGGG GTCAACTT ACAACTGCCG CTGTCCCCCA CAATGGACAG GACAGTTCTG CACAGAGAT C Q N G G V C V D G V N T Y N C R C P P Q W T G Q F C T B D>	910 920 930 940 950 960 970 980 990 990 ergencer argental argencer argental argencer argence.	1000 1010 1020 1030 1040 1050 1060 1070 1089 * * * * * * * * * * * * * * * * * * *	1090 1100 1110 1120 1130 1140 1150 1160 1170 1170 1170 1170 1170 1170 117	1180 1190 1200 1210 1220 1230 1240 1250 1260 ** * * * * * * * * * * * * * * * * *	1270 1280 1290 1300 1310 1320 1330 1340 1350 1350 1350 1350 1350 1350 1350 135	1360 1370 1380 1390 1400 1410 1420 1430 1440 * * * * * * * * * * * * * * * * * * *	1450 1460 1470 1480 1490 1500 1510 1520 1530 * * * * * * * * * * * * * * * * * * *	1540 1550 1560 1570 1580 1590 1600 1610 1620 * * * * * * * * * * * * * * * * * * *
880	CAATGGACAG Q W T	970 * AATGGAGGCT N G G	1060 * CCAGGCTCCA P G S	1150 TGCATCAGCA C I S	1240 * GGGGCTGACT G A D	1330 * GCCTTCCACT A F H	1420 GCTACCTGTC A T C	1510 * CAGAGCAACC Q S N	1600 TGCCAGATTG C Q I
870	CIGICCCCCA C P P	960 * TCCCAACCGC A N R	1050 * CICCIGIACI S C I	1140 * GGATGATGCA D D A	1230 * AGGCTACAAA G Y K	1320 * CACGGATGGC T D G	1410 * CCAGAATGAT Q N D	1500 * AAATGAATGT N E C	1590 TGGGCCAGTT G P V
860	ACAACTGCCG	950 * GGGCACCTG G G T D	1040 * GIGCCITGGC C A F A	1130 * TGTGTCATCT I C B L	1220 * ccrcccaca T c P Q	1310 * AATGTGTGAA R C V N	1400 * CAGACCCCTG S D P C	1490 * AATTAGAAAT E L E I	1580 * CRGGTTCAC P G F T
850	Grcaacactt V N T	940 * TGTCAAAATG C Q N	1030 * AITGALGAIT I D D	1120 GCAGGICTCC A G L	1210 * TATATTTGCA Y I C	1300 * CATGCAGGAA B A G	1390 GAGTGCCAIT E C H	1480 * GTGCAITGIG AN' V R C E	1570 * CTGTGTCCTC L C P
840	rerecarece v D G	930 * GCCCAATGCC P N A	1020 * CAGTGAGAAC S E N	1110 * AGAGGGGAAG E G K	1200 * AAATGGGCAA N G Q	1290 * TCCTTGTGAG	1380 * GGACATCAAT D I N	1470 * TTTCAAAGGT	1560 TTTCCAGTGC F Q C
830	GAGGGGTTTG	920 * GCCTGCTGCA C L L Q	1010 * GAGATGACTG	1100 * GCATGTGCCC C M C P	1190 * CCAACCCCCT T N P L	1280 * CCAATAGCAA A N S N	1370 * GTTGTGAGAT R C E M	1460 * GCATGCCAGG C M P G	1550 * AAGTCAATCG K V N R
820	TGTCAGAATG C Q N	910 * GTGGATGAAT V D E	1000 * GGCTGGAGTG G W S	1090 * rccrrcrr S F S	1180 * CTGTGTGACA L C D	1270 * TGTGCCATGG C A M	1360 * GCAGGACCTC A G P	1450 * ACATGICTGI T C L	1540 * TGTGTGGATA A.

1710	GITGIGIGAG L C E>	1800 * CAATCCCGGG N P G>	1890 * GGTCAATGGC V N G>	1980 * CCATGGAATC H G I>	2070 * GTGTGCCTCC C A S>	2160 * CAGCTGCTAC S C Y>	2250 * TGATGCAGGC D A G>	2340 * GGTGAATGGA V N G>	2430 * GAACCAAGGA N Q G>	2520
1700	rcacregier Fres V	1790 * CCTGCATCTG T C I C	1810 1820 1830 1840 1850 1860 1870 1880 1890 1890 4 * * * * * * * * * * * * * * * * * *	1900 1910 1920 1930 1940 1950 1960 1970 1980 * * * * * * * * * * * * * * * * * * *	1990 2000 2010 2020 2030 2040 2050 2060 2070 * * * * * * * * * * * * * * * * * * *	2080 2090 2100 2110 2120 2130 2140 2150 2160 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2170 2180 2190 2200 2210 2220 2230 2240 2250 2250 2250 2240 2250 2250 225	2260 2270 2280 2290 2300 2310 2320 2330 2340 * * * * * * * * * * * * * * * * * * *	ATCCAT N P	2510
1690	GCCACAGGIT A r G	1780 * GATTCCTACA D S Y	1870 * GATGGTCGCT D G R	1960 TGTGCAAGTA C A S	2050 * TGTAACATTG C N I	2140 * CCCGAGGGAC P E G	2230 * AGTGGATATA S G Y	2320 * GGAGGAACTT G G T	2410 * TGTGCCTCAA C A S	2500
1680	ATCCCAGTGT C Q C	1770 * GGATGGTATT D G I	1860 * TTGCCTGAAC C L N	1950 TITICALCAC F D D	2040 AGGGCAGAGA G Q R	2130 CUGIATAIGC C I C	2220 * TGGAGGTCTC G G L	2310 * ATGCCAGAAT C Q N	2400 * TAITGAIGAA I. D E	2490
1670	ATGGCTATGA N G Y E	1760 * GCCCCCCA GCCCCA	1850 * ACAGCAGCCC Y S S P	1940 * GIGAATTAA C B I N	2030 CAGGATTCAC P G F T	2120 * ATGGTTTCCG N G F R	2210 * GAAACTGFAC G N C T	2300 * TITICGAAICC L S N P	2390 * GCCAGGTGAA C Q V N	2480
1660	CATCACCCGA D H P	1750 * TGCCACCATG C H H	1840 * GATGAATGIT D E C	1930 * GGGGTTAAIT	2020 * GTCTGCTCAC V C S	2110 * AACGGTGTGA N G V	2200 * TGCATCCATG C I B	2290 * AATGAATGCC N E C	2380 GGCTATAACT G · Y N	2470
1650	AAAGTGTATC K C I	1740 * CCCCGATCCT P D P	1830 TGACCAGAIT D Q I	1920 * AGGCACGTCA G T S	2010 * CTACAGTIGT Y S C	2100 * AACATGTAIC T C I	2190 * GAGCAATCCC S N P	2280 * AGTGGACAAA V D K	2370 GGGCTTTRAA G F K	2460
1640	TGAATGGGGC L N G A	1730 * ACAACTGTGA D N C D	1820 * CCATCTGCAG A I C S	1910 * ACTGCCAGCC N C Q P	2000 * GCATTAATCG	2090 * GCAAGGGTGC R K G A	2180 * ACGAATGCCT N E C L	2270 * TCAACTGTGA I N C E	2360 CTTGCAAGAA T C K F	2450
1630	Actecetete teaategege aaagtetate calcacega atgectatea atgecagete gecaragett teactegetet ettefeteteage ${ m T}$ ${ m P}$ ${ m C}$ ${ m I}$ ${ m P}$ ${ m C}$ ${ m I}$ ${ m C}$ ${ m E}$ ${ m C}$ ${ m C}$ ${ m I}$ ${ m C}$ ${ m I}$ ${ m C}$ ${ m E}$ ${ m I}$ ${ m C}$ ${ m I}$ ${ m C}$ ${ m E}$	1720 1730 1740 1750 1760 1770 1780 1790 1800 * * * * * * * * * * * * * * * * * *	1810 * TACATGGGGG Y M G	1900 TACCAGIGCA Y Q C	1990 * TGTATGGATG C M D	2080 * AATCCCTGTC N P C	2170 * TCACAGGTGA S Q V	2260 * TGGGTTGGCA W V G	2350 * TACAGGTGTA Y R C	2440

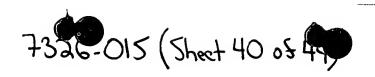
TCCCTGTTCC	လ် ပ	2610	GCAAGGTCAG Q G Q>	2700	CATGTGTGAA M C E>	2790 * CTGTATGGAT C M D>	2880 * TGAACCCTGT E P C>	2970 * GAACAACATC N N IS	3060 * GGGTFTCACT G F T>	3150 * TACCTACCGC T Y R>	3160 3170 3180 3190 3200 3210 3220 3230 3240 * * * * * * * * * * * * * * * * * * *	3330
CAGTATTGGC	T 7 1	2600	TGCTGTTTGC AAAGACTCAC CAAATTTTGA GAGTTATACT TGCTTGTGTG CTCCTGGCTG A V C K E S P N F E S Y T C L C A P G W	2690	CATAACACCC AGGGCAGCTA H N T Q G S Y	2770 2780 * * CCTTGCCAGA ATGGAGGTTC P C Q N G G S	2810 2820 2830 2840 2850 2860 2870 2889 * * * * * * * * * * * * * * * * * * *	2900 2910 2920 2930 2940 2950 2960 * * * * * * * * * * * * * * * * * * *	2980 2990 3000 3010 3020 3030 3040 3050 3060 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3070 3080 3090 3100 3110 3120 3130 3140 3150 3150 3150 3150 3150 3150 3150 315	3230 * GTAAAAACAA C K N K	3320
* AATTGTCAGA	O U Z	2590	recrrenere c l c	2680	CATAACACCC H N T	2770 ccttgccaga P C Q	2860 GACATGAATG D M N	2950 * TTTGATGGAG F D G	3040 TTCTCTTGCT F S C	3130 * ACGIGIGITG T C V	3220 cegiciccat R S P	3310
* CACAGGCAAG	¥ ∪ H	2580	GAGITTATACT S Y T	. 2670	resterence of the contract of	2760 * CCTTGCCAAT L A N	2850 Greccaeaca C Q T	2940 * ccasscassa Q A G	3030 * CATTAACTCC I N S	3120 * GAATGAGGGA N E G	3210 * TCTCTGCAGT L C S	3300
* TGCTGCCATA	V I P Y	2570	CANATITITICA P N F E	2660	CATGAACCA	2710 2720 2730 2740 2750 2760 * TGTCCACCAG GCTTCAGTG TATGGACTOT GAGGAGGACA TTGATGACTG CCTTGCCAAT C P P G F S G M D C E E D I D D C L A N	2840 * CTGGGGATAA T G D K	2930 * CTTCCAAGTG T C K C	3020 cocreared c v D G	3110 * ATCCATGCCT H P C L	3200 * CCCTGGTGAA T L V N	3290
* TGCCACTGTG	ပ ဆ ပ	2560	AAAGAGTCAC K E S	2650	TCCAAGCCCT S K P	2740 * GAGGAGGACA E E D	2830 * CCGCGTTTCA P G F	2920 * AACAGTTACA N S Y	3010 GGTGGCACAT G G T	TGCAGCTCTC	3190 * AACTGTCAGA N C Q	3280
TGGCTACACT	E X S	2550	recremmec A V c	2640	CGAGTGIATC E C I	2730 TATGGACTGT M D C	2820 * CCTCTGCCTT L C L	2910 * TGACTACGTC D Y V	3000 * CTGTTTCAAT C F N	3090 * GATCAATGAA I N E	3180 * CACTGGGAAA T G K	3270
* ATGACATAAG	DDIS	2540	GTGAGAATGC C E N A	2630	TTGACATTGA I D I D	2720 * GCTTCAGTGG	2810 * CTTTCTCCTG T F S C	2900 f GGACCTGCTC	2990 * CTGAGAGCTC T E S S	3080 * GCCTCCATGA C I H E	3170 * CCCTGGGCTA P L G Y	3260
* * * * * * * * * * * * * * * * * * *	T C F	2530	CCAAACCCTT P N P	2620	CGOTGTACCA TIGACATIGA CGAGIGIAIC R C I I D I D E C I	2710 * TGTCCACCAG C P P	2800 * GGAGTGAATA G V N	2890 * AAGAATGGAG (2980 * AATGAGTGCA N E C	3070 * GGATCCTTCT	3160 * TGCAGCTGCC C S C	3250

TGACATAGCA D I AS	3420	TCAGTGCCCC	3510	TGACTTCATT D F I>	3600	CTGCCAGAAT.	3690	CATTGATGAC I D D>	3780	CTTTCCTGGG P A G>	3870	CAATGACTAC N D Y>	3960	TGGAGGGACT G G TS	4050	CTGTGGACAA C G Q>	4140	GTCAGGCTGT
GTYCAGAAAA AAGCAGAGTC CCAGTGCCTA TGTCCATGTG GAGGGCTGG TGCCTATTGT GACGTGCCCA ATGTCTCTTG TGACATAGCA V Q K K A E S Q C L C P S G W A G A Y C D V P N V S C D I A>	3410	GCCTCCAGGA GAGGTGTGCT TGTTGACAGC ACTCAGGTGT CTGCATCAAT GCTGGCAACA CGCATTACTG TCAGTGCCCC	3500	CAACATGCAG A T C S	3580 3590	AGAATCAGCC Q N Q P	3670 3680	GTGAAGAGAA C E E N	3770	CTTGCCTGG	3860	TACAGCTCAC I Q L T	3950	CCTGCCTGAA P C L N	4040	GCCAGAGCAG C Q S S	4120 4130	GGGACTGCGA
CACGTCCCA D V P	3400	GCTGGCAACA A G N	3490	CAGCACGGGG	3580	CATCAGTECC D E C	3670	GCCTACTCT G L L	3760	AGTIGICGCI S C R	3840 3850	CTGGACTGTA L D C	3940	CCCCAGATGC P Q M	4030	GGGCCAAGGT G A R	4120	CCCAGTCCCC
TGCCTATTGT A Y C	3390	CTGCATCAAT C I N	3480	CAACCCCTGC N P C	3570	CTATCAACTC Y E V	3660	AGGCACTCGG G T R	3750	TGGAGGCTAC G G Y	3840	TGAGGGCAGC E G S	3920 3930 * *	candiener D V C	4020	GGGATTTTCC G F S	4110	CIGCITCIGC
GATGGGCTGG G W A G	3380	ACTCAGGTGT H S G V	3470	AGTGTGCGTC E C A S	3550 3560	TCAACTGTGA V N C E	3640 3650	CITGCCCACC S C P P	3730 3740	TCGATAGGAT M D R I	3830	OCTOCABOTIC P C S S	3910 3920	AAACCTTCGT E T F V	4010	GITGICCCC R C P P	4090 4100 4110	CTGGACCCG
TGTCCATCTG C P S	3370	ITGTGCCAGC L C Q	3460	CAACTCGATG Q L D	3550	TATCAGGGTG Y Q G	3640	TTCAAGTGCT F K C	3730	GCTCAGTGCA G Q C	3820	CTCTCCAACC L S N	3910	CGGCACTGTG R H C	4000	TTCATTTGCC F I C	4090	CACACCCCCT
CCAGTGCCTA Q C L	3360	TCTTGAACAC V E B	3450	CTGTGAGGAG C E E	3540	TGTCCCAGGC V P G	3630	TGTGAACCAT V N H	3720	CCTTAATGGT L N G	3810	CAACCAGTGC N B C	3900	CTTTACTGGC F T G	3990	GCCTGATGGT P D G	4080 *	GCAGTGTGTG
AAGCAGAGTC K A E S	3350	GAGGIGTGCI R G V L	3440	CTGGGAGCTA T G S Y	3530	GATGCGAGTG R C E C	3620	GTATTGACCT C I D L	3710	GICCCCAITIC G P H C	3800	AGGGAGACAT E G D I	3890	GCCGTAGTGC C R S A	3980	CCAGTAACAT	4070	GGAAGGGGGA
GTTCAGAAAA V Q K	3340	GCCTCCAGGA A S R	3430	CIGGGCTATA CTGGGAGCTA CTGTGAGGAG CAACTCGATG AGTGTGCGTC CAACCTGC CAGCACGGGG CAACATGCAG TGACTTCATT	3520	GGIGGATACA GATGCGAGTG TGTCCCAGGC TATCAGGTG TCAACTGTGA GTATGAAGTG GATGAGTGCC AGAATCAGCC CTGCCAGAAT G G Y R C E C V P G Y Q G V N C E Y E V D E C Q N Q P C Q N>	3610	GGAGGCACCT GTATTGACCT TGTGAGCT CTTGCCCACC AGGCACTCGG GGCCTACTCT GTGAAGAGAA CALTGATGAC G G I C I D L V N H F R C S C P P G I R G L L C E E N I D D>	3700	TGTGCCCGGG GTCCCCATTG CCTTAATGGT GGTCAGTGCTA TGCAGGCTAC AGTTGTCGCT GCTTGCCTGG CTTTGCTGGG C A R G P H C L N G G Q C M D R I G G Y S C R C L P G F A G>	3790	GAGCGTIGTG AGGAGACAT CAACGAGTGC CTCTCCAACC CCGCAGCCAGC CTGGACTGTA TACAGCTCAC CAATGACTAC $E \in E \in D$ I $E \in E $	3880	CTGTGTGTT GCCGTAGTGC CTTTACTGGC CGGCACTGTG AAACCTTCGT CGATGTGT CCCCAGATGC CCTGCCTGAA TGGAGGGACT L C V C R S A F T G R H C E T F V D V C P Q M P C L N G G T>	3970	TOTCCTOTGG CCAGTAACAT GCCTCATGGT ITCAITTTGC GTTGTCCCCC GGGATTTTCC GGGGGAGGT GCCAGAGCAG CTGTGGACAA C A V A S N M P D G F I C R C P P G F S G A R C Q S S C G Q>	4060	GIGAAAIGIA GGAAGGGGGA GCAGIGIGIG CACACCGCCT CIGGACCCC CIGCITCTGC CCCAGICCCC GGGACTGCGA GICAGGCIGT

FIG. FICONT'D

S 0	4230	fretegger F S ©	4320	GATGGGGTC D G V>	4410	TGCTCCTCC C S S>	4500	TGCCAGGGG	4590	AGTGTGGT E C 6>	4680 * SAACAACTG	4770 * SAACTCATG E L MS	4860 * *AGGAGGTG Q E V>	4950 * CAGCAGCT A A A>
DCB	4220	GCCCCACC A	4310	AAAGCTCG G K A R	4400	PGGCCAA C	4490	ACTITGA A' N P E	4580	ACAGTGA GON S E	4670 ATGCCACC TO	4760 * * * CCCAGGG GG	4850 * B Q E	4940 CGGATGC AG T D A
SPR	4210	TGCCAGT GT C O C	4300	TGTGCCG AC	4390	SAGAACC CC	4480	TGTTTG ACT	4570	AGGGGT GCZ	4660 * TGGTAT TGA V V L	4750 * AGCGGG ACT K R D	4840 * TTCCTG GTG L P G	4930 * TCAAGA ACA F K N
F C P	4200	ATTAC TCC X Y S	4290	GCCAG TAT	4380	TCACC ATG	4470	rceag rock	4560	ACTGT AACC	4650 CGTT ATTC	4740 * GCGC ATTA	4830 ACGCAGA TCCC	4920 ccac recr
Р В	4190	SCC TCCTT	4280	TG TCTGA	4370	TE TICIC	4460	AA CACGG	4550	GA CAACC	4640 * AAGG TACCCT E G T I	4730 * ACAC CAACCT H T N L	20 * AT GACACG M T R	10 * SA CTCAGA D S D
ა ი	.4.	AGCGCCAC O R O	4.	P A T	43	G GG D		AGCTGTGC E L C		ACTTCAAA H F K	46 TGGCAGAA L A E	47 TECTCCAC L L H	4820 * AACAGAGGAT K Q R M	4910 * GTCTTCAAGA C V Q D
₩ ±	4180	TGCCACCCTK C B P	4270	AGCACCCCTC S I P	4360	CAGTGGGATG Q W D	4450	CAGTGTGATG	4540	TGTGCAGACC C A D	4630 * CCTGAGAACC P E N	4720 CTGGGTACCC L G T	4810 * GCTATGAAGA A M K	4900 AACCCCCAGT N R Q
	4170	S 9 9	4260	GGCACCCCC A P P	4350	CCATGCCTGC H A C	4440	TATCAACAAC I N N	4530	TGACAAATAC D K Y	4620 * TGCTGACCAA A D Q	4710 * CTTGCGGCA L R A	4800 * GAAGTCAGCT K S A	4890 * GGAAATTGAC
الا الا الا	4160	GCCAGTAGCC CCTGCCAGCA GGGGGGCAGC TGCCAGCC TCCTTATTAC TCCTGCCAGT GTGCCCCACC ATTCTGGGT A S S P C Q H G G S C B P Q R Q P P Y Y S C Q C A P P F S G>	4250	AGCCGCTGTG AACTCTACAC GGCACCCCC AGCACCCTC CTGCCCAG TOTTGTGCCG ACAAAGCTCG GGATGGCGTC S R C E L Y T A P P S T P P A T C L S Q Y C A D K A R D G V>	4340	TGTGATGAGG CCTGCAAGAG CCATGCCTGC CAGTGGGATG GGGGTGACTG TTCTCTCACC ATGGAGAACC CCTGGGCCAA CTGCTCCTCC	4430	CCACTICCCI GCTGGGAITA TAICAACAAC CAGTGTGAIG AGCTGTGCAA CACGGTCGAG TGCCTGTTTG ACAACTITGA ATGCCAGGGG	4520	CATGCAAGTA T C K Y	4610 TGGACTGTGC L D C A	4700 * CTCGCAGCTT	4790 * ATTATGGTGA Y Y G E	4880 * AAGTCTTTCT (
) { •	4150	GCCAGTAGCC A S S	4240	AGCCGCTGTG S R C	4330	TGTGATGAGG C D E	4420	CCACTICCCT P L P	4510	AACAGCAAGA CATGCAAGTA TGACAAATAC TGTGCAGACC ACTTCAAAGA CAACCACTGT AACCAGGGGT GCAACAGTGA GAGTGTGGT N S K T C K Y D K Y C A D H F K D N H C N Q G C N S E E C G>	4600 4610 4620 4630 4640 4650 4660 4670 4680 TGGGATGGGC TGGTGACAA CCTGAGAAC TGGCAGAAG TACCCTGGTT ATTGTGGTAT TGATGCCAC TGAACAACTG W D G L D C A A D Q P E N L A E G T L V I V V L M P P E G L>	4690 4700 4710 4720 4730 4740 4750 4760 4770 * * * * * * * * * * * * * * * * * * *	4780 4800 4810 4820 4830 4840 4850 4860 * * * * * * * * * * * * * * * * * * *	4870 4880 4890 4900 4910 4920 4930 4940 4950 * * * * * * * * * * * * * * * * * * *

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5040	CACTCAGCTC T Q L>	5130 * GCATGGCTCT H G S>	5220 * GGGGCTGAAA G L K>	5310 * GCCAAAGAAA P K K>	5400 * AGCTGCAGAC A A D>	5490 * CCCAGATGGC P D G>	5580 * TGCTAACATC A N I>	5670 * CCGCTACTCA R Y S>	5760 * TGCTGCAGTG A A V>
5030	CTGTCATACC CTCTTGTGTC TGTCGTCAGATCCCTGA CTCCAGAACG CACTCAGCTC L S Y P L V S V V S B S L I P E R T Q L>	S050 5060 5070 5080 5090 5100 5110 5120 5130 ** * * * * * * * * * * * * * * * * *	5180 5190 5200 5210 5220 * * * * * * * * * * * * * * * * * * *	5230 5240 5250 5260 5270 5280 5290 5300 5310 * * * * * * * * * * * * * * * * * * *	5320 5330 5340 5350 5360 5370 5380 5390 5400 * * * * * * * * * * * * * * * * * *	5410 5420 5430 5440 5450 5460 5470 5480 5490 * * * * ATCCGTAGGA CACCATCGCT GCTCTCACC CCTCCTCAGG CAGAGCAGGA GGTGGATGTG TTAGATGTGA ATGTCCGTG CCAGATGGC IR R T P S L A L T P P Q A E Q E V D V L D V N V R G P D G>	5500 5510 5520 5530 5540 5550 5560 5570 5580 * * * * * * * * * * * * * * * * * * *	5590 5600 5610 5620 5630 5640 5650 5660 5670 A ATCACAGACT TGGTCTACCA GGTGCCAGC CTCCAGGCCC AGACAGACC GACTGGTGAG ATGGCCCTGC ACTTAGAGC CCGCTACTCA I I D R I G E M A L H L A A R Y S>	5680 5690 5700 5710 5720 5730 5740 5750 5760 5760 5760 5760 5760 5760 576
5020	GAATCCCTGA ESL	5110 * ATGCCAAAAC M A K	5200 * CCAGTGGGAC P V G	5290 * GTCGATGATG V D D	5380 * TGGACACAGC W T Q	5470 * TTAGATGTGA L D V	5560 * GAAGATGCAG E D A	S650 * ATGGCCTGC M A L	5740 * ATGGCCGCT M G R
5010	rencencaer v v s	GGGGGTAATC	5190 * GCGTCGTGAG R R E	5280 * TGAACACTGG E H W	5370 TCGACGGCCA R R P	5460 * GGTGGATGTG V D V	5550 * TGATGAAGAT D E D	5640 * GACTGGTGAG T G E	5730 * CCAGGACAAC Q D N
2000	CICITIGICIC P L V S	5090 * TTAITCIGCT I I L L	5180 * GCAATCACAA S N H K	5270 * CTGGAACAG T G T S	5360 * ACCCCATTGA D P I D	5450 * CAGAGCAGGA A E Q E	5540 * CAGATTTGAG S D L S	5630 * AGACAGACCG Q T D R	5720 A ATGCCAATGC D A N A
4990	CTGTCATACC L S Y	5080 * ALTCTGITTA I L F	5170 * CGAGATGCAA R D A	5260 * CTAATTGGTA L I G	5350 * GAAGAAGATG E B D	5440 * CCTCCTCAGG P P Q	5530 * GGAGGCAGCT G G S	5620 CTCCAGGCCC L Q A	5710 \$ GCAGGTGCAG A G A
4980	CTCACCCAT ACAGGGGACC S H A I Q G T	5070 * TGTTGTCATC	S150 S160 5170 * * * * * * * * * * * * * * * * * * *	5250 AGAAGCTAAC E A N	5340 * CTTACTCTCA L L S	5430 * GGTCTCACC A L T	5520 * TTCTCTCCGA S L R	5610 * GGTGCCAGC	5700 TCTCCTGGAT
4970	CTCACGCCAT S H A I	5060 TTGCTGTTGC L A V A	5150 CTGAAGGTTT P E G F	5240 * TGCAAGTCTC V Q V S	5330 * AAGATGAGGC E D E A	5420 * CACCATCGCT T P S L	5510 * TGATGTTGC L M L A	S600 TGGTCTACCA	5690 * CTGCCAAGCG
4960	CTCCTGGCCT L L A	5050 * CTCTATCTCC L Y L	5140 * CTCTGGCTGC L W L	5230 * AATCTCTCAG N L S	5320 * GTAAAGGCTG V K A	5410 * ATCCGTAGGA I R R	SS00 TGCACCCCAT	5590 * ATCACAGACT I T D	S680 CGGGCTGATG R A D

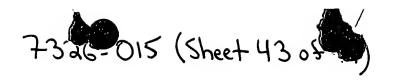


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5850 TACACCCCTG T P L>	CCATG	9980	6120 * TCGAGACATC R D I>	6210 * CAATGTGACC N V T>	6300 * GCACACCCCA H I P>	6390 * TGCCAAGGGT A K G>	6480 * ATCTCCTCAC S P E>	6570 * CACTGCCGCC T A A> 6660
5830 5840 * * CCCAGGATGA ATGATGGTAC A R M N D G T	5920 5930 * * GATGTGAATG CAGTGGATGA D V N A V D D	6000 6010 6020 * * * CTICITICAA AAIGGGGCCA ACCGAGACAT L L K N G A N R D M	6100 6110 6120 * * CTGTTAGACC ATTTTGCCAA TCGAGACATC L L D H F A N R D I>	6190 6200 6210 * * GTGCGCCTTC TGGATGAATA CAATGTGACC V R L L D E Y N V T>	6290 6300 * TCAGCCTGAA GCACACCCA L S L R H T P>	6370 6380 * CTTGCCAAGG AGGCAAAGGA L A K E A K D	6460 6470 6480 * * * * * * * * * * * * * * * * * * *	6560 * CTATGTTGGC P M L A
		6010 * AATGGGGCCA N G A			6280 * AGATCTTTCC R S F	6370 CTTGCCAAGG	6460 * TCCCCTGTTG S P V	6550 * TCACCCAACC S P N
5820 * TGATCIAGAT	5910 * CTGCCAAGCG C Q A		6070 6080 6090 * * * CGGGAGGGGA GCTATGAACC AGCCAAGATC R E G S Y E A A K I	6160 6170 6180 * * CTGGCTCGGG ALCGCATGCA CCATGACATT V A R D R M H H D I	6270 TGGGCCCAAC G P N	6360 ccrcccraac L P N	6450 * AGTAACTTTA V T L	6540 * CTTACAGGCC L Q A 6630
SB10 * ACCGAGTAAC N R V T	5900 * AACTGATCAA E L I N	5990 CAACTCTTT A T L L	6080 * GCTATGAAGC S Y E A	6170 * ATCGCATGCA D R M H	6260 * CTGTCATCTG P V I C	6350 * TGCCTACTAG M P T S	6440 * CTGAGAGITC S E S S	6530 * CCCTGGGAT S P G I
5800 * CTGATTCGCA L I R	5880 5890 5900 * * TGTGGAGGGA AACTGATCAA V E G M V A E L I N	S970 5980 * TGCTGTCAAT AATGTGGGGG A V N N V E			6250 * GCTCTCTCAC A L S		6430 * Grccaacter V Q L	6520 * ATGATTACAT M I T 6610
5790 * CITCCAGAIT		5970 * TGCTGTCAAT A V N	6060 TCTTGCTGCC L A A	6150 TCCCCGGGAT P R D	6240 * GITGACTICT L T S	6330 * GCCCAGTGCC P S A	6420 * GACTGAGAAG	6510 * ATCCTCTCCA 1 S S P 6600
S770 5780 * GCAGCTGATG CCCAAGGTGT A A D A Q G V	5860 5870 * ATCCIGGCIG CCCGCCIGGC I L A A R L A	5960 * ACTGGGCAGC H W A A	6040 6050 * AAGGAAGAGACACCICIGIT K E B I P L F	6140 * TGGATCGTCT M D R L	6220 6230 * * * CCAAGCCCTC CAGGCACGT P S P P G T V	6320 * AGTCTAGACG K S R R	6410 * AGAAGTCTCT K K S L	6500 CCGACACCAC
S770 * GCAGCTGATG A A D	5860 * ATCCTGGCTG I L A	5950 * TCTGCTCTTC S A L	6040 * AAGGAAGAGA K E B	6130 * ACAGACCATA T D H	6220 * CCAAGCCCTC P S P	6310 6320 6330 6340 * ATGGGCAAGA AGTCTAGACG GCCCAGTGCC AAGAGTACCA M G K K S R R P S A K S T	6400 6410 6420 6430 6440 6450 * * * * AGTAGGAGGA AGAAGTCTCT GAGTGAGAAG GTCCAACTGT CTGAGAGTTC AGTAACTTTA S R R K S L S E K V Q L S E S S V T L	6490 6500 6510 6520 6530 6540 * ACGTATCTIT CCGACACCAC ATCCTCTCCA ATGATTACAT CCCTGGGAT CTTACAGGCC T Y V S D T S S P M I T S P G I L Q A 6580 6590 6600 6610 6620 6630

* <u>E</u> A	6750 * CCCA P>	6840 * CACC T>	6930 * CCAG	7020 * cacc	7110 * GACC TO	8* 5A	8* 4A	&* y 4	0
CACTGTGC	67 TCCAGTCC P V	TGAGGG E G	GACTTT I F	70 CCTGCCCA	71. AGCTCAGN A Q	7200 * AAATGCTGCT N A A>	7290 * GTCAAGITCA S S S>	7380 * TGGGACACAC G T H>	7470
ATGGGGCCAG	6740 * GTAGGCTCCA S R L H	6830 * TGCCTCCAGC L A P A	6920 * CCCCCATTGT P P I V	7010 * TTGCGGGCCC V A G P	7100 ACGGCAGGT D G Q V	7190 * ATGCTTCCTC Y A S S	7280 * CTGACCAGTG P D Q W	7370 * AGCGGGGACC Q R G P	7460
ccrrrggcac P L A	6730 * GGAAGCTTGA	6820 * GGTATGGTCC G M V	6910 * GAGCCCTIGC B P L	7000 7010 7020 * CCTCCAGCTG TYGCGGGCC CCTGCCCACC P P A V A G P L P T>	7090 7100 7110 * * * * * * * * * * * * * * * * * * *	7180 * CAGCACAGTT Q H S	7270 * CCAGAGTCTC P E S	7360 * GGAGGAGGTC G G G	7450
TGAAATGCAG B M Q	6720 TGGCAGTGCT G S A	6810 * TGAGATGITT E M F	6880 6890 6900 6910 6920 * * * * * * * * * * * * * * * * * * *	6980 6990 * * CCCASCETCA GTCCACCTGC P Q P Q S T C	7080 * TGCCATGATG A M M	7170 * ACCCCCTTCA P P S	7260 * GACACCATCC T P S	7350 * TGGGGTGCT G G A	7440
CTAACCITCA S N L H	6710 CTCCAGGCAG	6800 * CCCAGTACAA T Q Y N	6890 * AGCACATAAC K B I T	6980 * CCCAGCCICA P Q P Q	7070 * CITICCCCAC	7160 * AGTACCCCAC R Y P T	7250 * ATCCCTACCF H P Y L	7340 GCCCTACCCC S P T P	7430
CTAICTTITT L S F	6700 * CACATIGIGI B I V	6790 * GTGAATGAGA V N E	6880 * CCTGAAGGGA P E G	6970 * GCGGGGCTC A G A	7060 * CCCAGTGTGG P S V	7150 * TCTGTGGGCA S V G	7240 * CAGGGTGAGC Q G E	7330 Greaceacea V T T	7420
CCAGCATGCA Q H A	6690 * ATCCCACCAC S H H	6780 * CCGCATGGAG R M E	6870 * GAGCAGGCCA S R P	6960 * TGCCCAACCA A Q P	7050 * GGCCCGTTTG A R L	7140 * TTTCCCAGCC F P A	7230 TGGTCACCTC G B L	7320 * CTGGTCAGAT	7410
CCTCCTGCCC CAGTCCATGC CCAGCATGCA CTATCTTTT CTAACCTTCA TGAAATGCAG CCTTTGGCAC ATGGGGCCAG CACTGTGCTT P P A P V B A Q H A L S F S N L H B M Q P L A H G A S T V L>	6680 6690 6700 6710 6720 6730 6740 6750 * * * * * * * * * * * * * * * * * * *	6760 6770 6780 6790 6800 6810 6820 6830 * * * * * * * * * * * * * * * * * * *	6860 6870 * TAGCTCCCCA GAGCAGGCCA I A P Q S R P	6940 6950 6960 * * CTCATCCCTA AAGGCAGTAT TGCCCAACCA	7030 7040 7050 7060 7070 7080 * * * * * * * * * * * * * * * * * * *	7130 7140 7150 7160 7170 7180 7190 7200 * * * * * * * * * * * * * * * * * *	7220 7230 7240 7250 7260 7270 7280 7290 * * * * * * * * * * * * * * * * * * *	7310 7320 7330 7340 7350 7360 7370 * * * * * * * * * * * * * * * * * * *	7400
CCTCCTGCCC P P A	6670 CCCTCAGTGA P S V	6760 * GTCCCAGCAG	6850 * CATCCTGGCA H P G	6940 * CTCATCCCTA L I P	7030 * ATGTACCAGA M Y Q	7120 * ATTCTCCCAG	7210 * GAGCGAACAC E R T	7300 * FCACCCCACT S P B	7390

ATGICTGAGC CACCACACAA CAACATGCAG GITTATGCGT CAGAGAGTCC ACCTCCAGTG TAGAGACATA ACTGACTTTT GTAAATGCTG M S E P H N N M Q V Y A>

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7650	TTTGTGGAAA	7740	CATTCTTGCA	7830	GCCTGGAAT	7920	* CCGTGATTGT	8010	* CCTCCTGTC	8100	* GGAAAATGGA	8190	* GGGCAGGAGA	8280	STITCIPLE	8370	* Zagaaaagg	8460	CAAGCATTC
7640	* * * * * * * * * * * * * * * * * * *	7730	* TGCAAGATGA AIACAAGCCI IGGGICCAIG ITIACICICI ICTAITIGGA GAATAAGAIG GAIGCITAIT GAAGCCCAGA CAIICIIGCA	7820	GCTIGGACIG CALITIAAGC CCIGCAGGCI TCIGCCAIAI CCAIGAGAAG AITCIACACI AGCGICCIGI IGGGAAITAI GCCCIGGAAT	7910	rcheccheaa ingacciace caicheche tecingaca incitingie incaintagi geniingsit ingeaceiei ecsigainsi	8000	AGCCCTACCA GCATGITATA GGGCAAGACC TITGIGCTIT IGAICAITCT GGCCCAIGAA AGCAACTITG GICICCTITC CCCICCIGIC	8090	TICCCGGTAI CCCIIGGAGI CICACAAGGI ITACIIIGGI AIGGIICICA GCACAAACCI IICAAGIAIG IIGIIICITI GGAAAAIGGA	8180	CAIACTOTAT TGTGTTCTCC TGCATATATC ATTCCTGGAG AGAGAAGGGG AGAAGAAIAC ITTTCTTCAA CAAATTTTGG GGGCAGGAGA	8270	* AAGGGTGTGA	8360	TITTIAAAC (8450	* CTACTTCCTG (
7630	TTCTAATCTA	7720	GATGCTTATT	7810	* AGCGTCCTGT	7900	* GCTTTTGGTT	7990	* AGCAACTTTG	8080	TTCAAGTATG	8170	* TTTCTTCAA	8260	* TACCAGGAAG	8350	CCTCCCCACT	8440	* ACAGGTCCCC
7620	TTATTGATT	0177	Gaataagaig	7800	* ATTCTACACT	7890	TTCATTTGGT	7980	GGCCCATGAA	8070	GCACAAACCT	8160	* AGAAGAATAC	8250	* ATATAAACTT	8340	TACTATGAC	8430	TACCCACCC 1
7610	TCTGCAAGGC	7700	TCTATITGGA	7790	CCATGAGAAG	7880	TTCTTTGTC	1970	TGATCATTCT	8060	Argerice	8150	AGAGAAGGGG	8240	* GCAGGICTIC	8330	GATAGICTAG	8420	CAAGAGCCAG 1
1600	TCACTGGGTA	7690	TTACTCTCT	7780	TCTGCCATAT	7870	rccitiggaca	0962	TTGTGCTTT	8050	Tractitiggt	8140	ATTCCTGGAG	8230	Thererere	8320	TTIAICCII (8410	TAACTCGTG
7590	TTCGTCAGIT	7680	TGGGTCCATG	0777	CCTGCAGGCT	7860	CATCTCCTCC	7950	GGGCAAGACC	8040	CTCACAAGGT	8130	TGCATATATC	8220	TRATTITIC .	8310	CAGTGTAAAG	8400	AGAGACAAG 1
7580	AGAGAAGCAA	7670	ATACAAGCCT	7760	CATITIAAGC	7850	TTGACCTACG	7940	GCATGTTATA	8030	CCCTTGGAGT	8120	TGTGTTCTCC	8210	AGGCTGCACC	8300	GGGCCTGGT (8390	GGAATGACC A
7570	AGATAATGCA	* 099 <i>L</i>	TGCAAGATGA	7750	GCTTGGACTG	7840	TCTGCCTGAA	7930	AGCCCTACCA	8020	TTCCCGGTAT	8110	CATACTGIAL	8200	TOCCITICAAG AGGCIGCACC TIVAITITIC IIGICIGIGI GCAGGICTIC AIAIAAACII TACCAGGAAG AAGGGIGIGA GITIGITATI	8290	ritcigigia iggecciggi cagigiraag intiaiccii gaiagiciag itrciaigae cciccccaci intiiraaaa cagaaaagg	8380	TITIGGAATGI IGGAATGACC AAGAGACAAG ITAACICGIG CAAGAGCCAG ITACCCACCC ACAGGICCCC CIACITICCIG CCAAGCAITC



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8550	ACTAGICITA	8640	TTAGCCCAAG	8730	ATCTTTCTTT	8820	TTGGAAAGTT	8910	TCCTACCATT	0006	CACCTTTTAG	0606	TTGGCAATTT	9180	GTTAATAATT	9270	GTAGATATTA	9360	ACTTACCTGA	9450	CAAATTTATT	9540
8540	CAITGACTGC CIGIATGGAA CACAITTGTC CCAGATCTGA GCAITCTAGG CCTGITTCAC TCACTCACCC AGCAIATGAA ACTAGICTTA	8630	ACTGITGAGC CITICCITIC AIAICCACAG AAGACACIGI CICAAAIGII GIACCCIIGC CAITTAGGAC IGAACITICC TIAGCCCAAG	8720	GGACCCAGTG ACAGTTGTCT TOCGTTTGTC AGATGATCAG TCTCTACTGA TTATCTTGCT GCTTAAAGGC CTGCTCACCA ATCTTTCTTT	8810	GCTCCGTGTT ACTGCTATAC CCACTATGTT CTCACTGAAG ACATGGACTT TATATGTTCA AGTGCAGGAA TTGGAAAGTT	8900	SGACITGIII ICIAIGAICC AAAACAGCCC TAIAAGAAGG IIGGAAAAGG AGGAACIAIA IAGCAGCCII 1GCIAIIIIC IGCIACCAII	0668	ICTITICCIC IGAAGGGGCC AIGACATICC CITIGGCAAC IAAGGIAGAA ACICAACAGA ACAITITICCI TICCIAGAGI CACCITITAG	0806	ATGATAATGG ACAACTATAG ACTIGCICAT TGITCAGACT GAITGCCCCT CACCTGAATC CACTCICTG AITCAIGCIC	9170	CITITIAAGGG CAGAAGCAIT TIAGITAAIT GIAGAIAAAG AAIAGITITIC ITCCICITICÍ CCITGGGCCA GITAAIAAIT	9260	TGGGCATTTT	9350	AGTGCTTCCC	9440	CAGTCCTATC	9530
8530	TCACTCACCC	8620	CATTTAGGAC	8710	GCTTAAAGGC	8800	TATATGTTCA	\$890 *	TAGCAGCCTT	8980	ACATTITICCI	90706	CACTCTCTGT	9160	TTCTTCT	9250	AAGTICIGCC	9340	AGTATGCATC	9430	ATGGTTTTTT	9520
8520	CCTGTTTCAC	8610	GTACCCTTGC	8700	TTATCTTGCT	8790	ACATGGACTT	8880	AGGAACTATA	8970	ACTCAACAGA	0906	CACCTGAATC	9150	AATAGFTTTC	9240	CCTGCAAAAT	9330	TATGGCTGCA	9420	TAGITTACAA	9510
8510	GCATTCTAGG	8600	CTCAAATGTT	8690	TCTCTACTGA	8780	CTCACTGAAG	8870	TTGGAAAAGG	0968 *	TAACGTAGAA	9050	GATTGCCCCT	9140	GTAGATAAAG	9230	GCCCATCACA	9320	TCATTCCTTC	9410	GITGCCATAA	9500
8500	CCAGATCTGA	8590	AAGACACTGT	8680	AGATGATCAG	8770	CCAGTATGIT	8860 *	Tataagaagg	8950	CTTTGGCAAC	9040	TGTTCAGACT	9130	TTAGTTAATT	9220	GTGCTGTGAT	9310	ATGACAGTTC	9400	CTGCGTGTCT	9490
8490	CACATTTGTC	8580	ATATCCACAG	8670	TCCGTTTGTC	8760	ACTGGTATAC	8850 *	AAAACAGCCC	8940	ATGACATTCC	9030	ACTIGCICAL	9120	CAGAAGCATT	9210	CTTCCGTCCA	9300	TTGGTTTGA	. 9390 *	TATGGAAACC (9480
8480	CTGTATGGAA	8570	CITICCIPIC	8660	ACAGITGICI	8750	GGTCCGIGIT	8840	TCTATGATCC	8930	TGAAGCGGCC	9020	ACAACTATAG	9110	CTTTTAAGGG	9200	TACACTGCAA	9290	TCCCGACTCT	9380	GETGGCCCCA .	9470
8470	CATTGACTGC	8560 *	ACTGTTGAGC	8650	GGACCCAGTG	8740	CACACCGTGT	8830	GGACTTGTTT	8920	TCTTTTCCTC	9010	ATGATAATGG	9100	CTTTGACTTT	9190	GGICCAIGGC IACACIGCAA CIICCGICCA GIGCIGIGAI GCCCAICACA CCIGCAAAAI AAGIICIGCC 1GGGCAITII GIAGAIAIIA	9280	ACAGGIGAAT ICCCGACICI ITIGGITIGA AIGACAGITC ICAITCCTIC IAIGGCIGCA AGIAIGCAIC AGIGCITCCC	9370	TITGICIGIC GGIGGCCCCA TAIGGAAACC CIGCGIGICI GITGGCATAA TAGIITTACAA AIGGITITIT CAGICCIAIC CAAAITTAIT	9460



AACCAACAA	AAATAATTAC	TTCTGCCCTG	AGATAAGCAG	ATTAAGTTTG	TTCATTCTCT	GCTTTATTCT	SAACCAACAA AAAIRAITAG ITCIGCCCIG AGAIAAGCAG AITAAGIITG ITCAITICIC GCIIIAITCI CICCAIGIGG CAACAITICI	CAACATTCTG
9550	9560	9570	9580	9590	0096	9610	9620	9630
CAGCCTCTT	TCATAGTGTG	CAAACAITIT	ATCATTCTAA	ATGGTGACTC	TCTGCCCTTG	GACCCATTTA	CAGCCTCTT TCATAGNOTG CAAACAITTT ATCATTCTAA AIGGTGACTC TCTGCCCTTG GACCCAITTA TIAITCACAG AIGGGGAGAA	* Atgeggagaa
9640	9650	0996	0296	0896	0696	9700	9710	9720
CTATCTGCA	TGGACCCTCA	CCATCCTCTG	TGCAGCACAC	ACAGTGCAGG	* GAGCCAGTGG	* CGATGGCGAT	CTAICTECA TECACCOTCA CCATCOTOTE TECAGCACAC ACAGTECAGG GAGCOMOTOG CGATGCCGAT GACTTICITO CCOTGGGAAT	* CCCTGGGAAT